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1  ATGGGACCCT GGTCA GTGGT GGTGCTGGTG TCGGCATGA AGCAGCTGGG
51  GCAGGCCCTC CAGGCCTCAG TTTCCCTGTC TATCATCACA GAGAATCAGG
101 GCAAAAGGTG TCCCTTCTGT GGAGCCCAGA ACCTGATGAC CTGTCAGAAT
151 CCCACCCTTC CTTCTGTCTC CCATCGAAGT CCTCCAGGAA ATGCAGCTGT
201 TTCAGTGACA GGGGGTGATT GCCATCTTCC AACTGAGGAG GAATTTGGGG
251 TTTTGGTCCA GTCCATGAAG TGTGACACAG TCAGAATAAA AGGCGTCCTT
301 CAAGGCCCTA CCACAGCCCC TCCTCTCATG ACCAGTGAAG GCAATGTAAC
351 TGCAGAAGAC ACTGAGGAGG CAATTCGGGC TTTTGTGTAC GCTGTGGCTG
401 CTGCTTCTGC TGCCGAAGCT TGGCATTGGA GACACCTCGT CCTCCTCTCA
451 GGACAGATCC ATGAACCCAT CGGCAGCGGC GGAATATAA TCAACACTAA
501 TAAAGGAGGA AGGAGCTGTC AGAATCCTGC CCTCCGTCT CCAGATCAAA
551 GTCCTTCAGG AAATGCAACT ACTTCAGTGA CAAGAGATAA TTATCATCTT
601 CTGACAGAGG AGGAATTTGG GGTTTGGTCC CAGTCCATGA AGTGGCACAG
651 TCAGAATAAA AGTGGCGGGA GCGTCCCCGT GAGAGGCCCG ACCCAGGAGC
701 CATGTTCTGA ATCTCAAATT TTGAAAGAAT CTTTGTGCC ACCCACAACA
751 CCCAAAGAAA ATAATAAACA GGAGAGGGAG GATGAAATTT GGCGTCTACC
801 ACCCCCTCCA GTAGCAGAAA CACCTGTACC ATCTCCTTCA GTAACAGAAA
851 TAGAGACCCC ACTGCAAAGA ATTCCGCGGA CTGCTACCAT AGCTGGAGAG
901 CCCTTAGGAC ATTGCACTTT CACTATTTCT CCGGCATTCTG TACATTCTGT
951 GCTCAACAAA CGGAAGCGGC AGCTGGAGCT GCTGCTCCGG GAGGTGGAGT
1001 GGCTGGCAG AGGGCACATG GCTGCCACCT GCTGCAAGCT CCAGGTAGAA
1051 GGGCAGGACA GAACCATGAG CCTAGCGGCA GCGCCGGTTC GCGAAGCTCC
1101 CCCTCCGCCA ACGGGCGCCT CCTCAGAGCC GTCCGTGCCC GCCCTGCCGG
1151 GAGCTGACCC GCAGCGCAGT GCAGAGTTGC TCCTGTTGGC GGTGACCAGG
1201 GAGGGACTGG AGCGCGGAT CATCTCCAGG AAGCGGGCTG AGTAG

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FEATURES:

Start codon: 1

Stop codon: 1243

Homologous proteins:

EST:

Blast hits:

	Score	E
CRA 3000001473333 /altid=gi 1186824 /dataset=dbest /taxon=9606 ...	159	2e-36

FIGURE 1

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1  MGPWSVVVLV CGMKQLGQAL QASVLSIIT ENQKRCPCFC GAQNLMTCQN
51  PTLPSVSHRS PPGNAAVSVT GGDCHLPTEE EFGVLVQSMK CDTVRIKGVL
101 QGPTTAPPLM TSEGNVTAED TEEAIRAFVY AVAAASAAEA WHWRHLVLLS
151 GQIHEPIGSG GNIINTNKGK RSCQNPALPS PDQSPSGNAT TSVTRDNYHL
201 LTEEEFGVWS QSMKWSQNK SGGSPVVRGP TQEPCESESI LKESFVPPTT
251 PKENNKQERE DENWRLPPPP VAETPVPSPS VTEIETPLQR IPRTATIAGE
301 PLGHCTFTIS PAFVHSVNLK RKRQLELLLR EVEWPGRGHM AATCCKLQVE
351 GQDRMTSLAA APVREAPPPP TGASSEPSVP ALPGADPQRS AELLLLAVTR
401 EGLERRIISR KRAE

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FEATURES:

Functional domains and key regions:

BLAST Alignment to Top Hit:

Hmmer results:

Model	Description	Score	E-value	N
PF00947	Picornavirus core protein 2A	4.3	5.6	1

Parsed for domains:

Model	Domain	seq-f	seq-t	hmm-f	hmm-t	score	E-value
PF00947	1/1	197	205 ..	1	9 [.	4.3	5.6

FIGURE 2

1 AGCCAGACTA GGAGTGAGCC AGAAGAGGGG AAGGATGGTG GAGGCACAGG
51 CTGCACTCTA CTGGTGCCCC AGACCCAGAC TGCATGCCCC GGCTGCAGTC
101 CAAAGGATAC TCGGTGCGGG TCCCTGTCCC CCATAGCATC TTAGATCAGC
151 TGCTGAGGCT GGAGCTTCTT CCATTCCTTG AGCATCAGGG GTGTGTATCA
201 TTTCCAAGGG TTTTCAGACA ATCCCTGGTG ACCCCTGGCA GGGGGCGGTT
251 ATCATGGCGA TCGGTCCATG GCCTTGCCCTC CAAGCAGCAC CCAGCAATCC
301 CCATGCCCCA CAATGCACTA AATGTTTGTG GTGGGCCTCT TTCTGGAAGC
351 TCACCTTCTC CTCCTGTTTG CCCTCCATCT TCCCCAAACC AGTACTTCTG
401 GCCATCCTCC TTGTCAACCAC AATGGGAAAA CTGGGTCCTG GAGACTCAGA
451 AACCACTGTG CAGGCCTCGA GTCTTCCCCT GTCCTGGCTA ACAGGGCATG
501 GGAATCAGAG GAAAAGTCAT CTTCACCTC CTGAAGGCTG CCAGCGTCAG
551 GGCTTGGCAC ACTGAGGCTG ACAGGGGCCT TCTGAAGGCC AGAGGAGATG
601 GCGGCGGACA TAAGGCTGAA GCAACCTGTC TGAGCCAAAG ATCTGTTTGT
651 GTCTCCTGA ATCTTAGTGG CCTTCTAAAG GCGGGTGTGA TCAGCCATGG
701 GTATCAGAGA CACTGGAGTC CAGTAGCTGC TAGGTGGGAC ACGGGCACAA
751 TTTCACTTGC AGACCAGCTG CACGGAGTGG ATAAAGAGAG AGTTCTGTGT
801 GGAATCTCC TTTGGTGGAT CATCAGGGAG GTGAAGTCTT TGTATAGCC
851 TCATATCCAG TTTGTGTGAT ACCAATTCCA GTGAAGCTGG AACAAGCTGG
901 CACTGCTCAA ACAGGCCTAC CAAGACATCA TGTTTTTTTT TTTTTTTTCC
951 ACCAAACCTG GACCTGAATG GGGATGTGGA CACACATAGA GTCCAGAGGA
1001 TGGGACCCTG GTCAGTGGTG GTGCTGGTGT GCGGCATGAA GCAGCTGGGG
1051 CAGGCCCTCC AGGTGGGAGG AGGAGCCAGC CTCTCCTGTG GGGTCCTGGG
1101 CAAGTCATT CCCTCCTTGA CGCTCTGTTT CCTCATCTGG AAAATCCAGG
1151 AAGCCTGTTG TGCAGTCTCT AGAGGGTCAT GATAAGGTGC AAAGGAGGAA
1201 GAAATTTTGA GAGTTCTTGT GCCTTCCTCT TCCTGAGAGG GATGATGGTG
1251 AGAACAGTGT GGATAACCAC ATGCAACTGA GTCCCCAAAA GGCCCTGTGA
1301 GGAAGGTGTT GTTCCCATCA TGCTTCCCAG ATGAGGAAAC AGTCTCAGGG
1351 AGGCCTGGCT GCATGCCCCA GGGTTACACA CACACTGAAT GTTGGAGCTG
1401 GGAGTAAATC TAGAGTCAGG GCTCACTGGA GGTGGTGGGA GCATTGCACC
1451 AGCTGCCTCA TGCAGTTATC CAAGATCTGA GGTCAAGGGT CTGGGGTATA
1501 ACTCGGTGAG AGAACACAG TCTCACTGAC CCGTTTTCTG ACTCTGCTAG
1551 GTAGGGAAC TTTTAGAGTC CAGATGCTGC TGTGCTGCT CCAGGGAGTT
1601 AAGGACAGGG CTTTTCCCTC CCAGCTGGAG TTCTCCACAT CAAGAGACCA
1651 GAGTGTCTTC CTCTCTAGC CCGCCCTCC TGTGGCCACA GACTTTGGAA
1701 TGCCTTCATT AACGTGACCA GAGAAAGAGA CTTAGAGAGC TGAGTTCACA
1751 GTGGATTGGG AAAAGAGTGA GGCTGGGGAC AACCTGACTT TGTGACTTAT
1801 TAAATCCTA CTTAGAGTT AACTAGAAAG AGCTTGGTGT CTTTGGAGG
1851 CAGCTGTGGA AAGAGGAGGT AAAGATGTCT TGTAAAGAGG CTGAGGGTCC
1901 TTGGCTGCTC CAAGTGGGAG ACTTGGGTAG GGGCGTCAAG GAGACATGGG
1951 TTGGTGAGAG TTCAAAGGAC AGGCCTTATG CAGGAAGCTG AGAATTTGTG
2001 CTCACTACTG CTACCACCTT GGAGGAACAG GGAGCTGTAC CCTCTCTCGG
2051 CACACTTCTC ACTGACCTGA TGATGCTGGA CATTGCCATA GAGGATTATA
2101 ATGATGTGTG TGACACTGGG GCAGGCAGGC AGTTTGGGAA CCAAGATCCT
2151 GAAGCTTGTG AGAACAGAGT CCTGGAATAA GCCCTGAGAT TGCAGCACTC
2201 AGCAAACCTG CTTTCCTGAG AGCCTACCAG ATGCCCATGT GAAAGGGGGG
2251 TGTCAGTTCC ATCTTATCTA TGAGTGACAG AGGCTCCAGC AAAGACACCA
2301 GTCAGTGTTC CTTGAGTAGT GAAGCTGCAG AGCTAAGTCT CAGCCTCTGC
2351 CTTAGGTGGT ACCCATTGGA GAAAACAGAA ATTGGGCCCC TCCTAAGACA
2401 GGAAGTTCTT AAATTGTTGA GTGCCTTTTT TGTTCCTAG GCCTCAGTTT
2451 CCCTGTCTAT CATCACAGAG AATCAGGCA AAAGGTGTCC CTCTGTGGA
2501 GCCCAGAACC TGATGTAGGT CCAAGTCCTG TTTTATGCAC ATGCCTTGAC
2551 CCTGGCAGCC CTGGCGGTGG TGCAGCATGG GAAGTACAGG GGATGAGGGC
2601 TAGTCATGGG CCAGGGGGTC TTTCTGAGGG ATCTTGGCTG TCTACCTTCC
2651 AGGAAAATAT AATCAACACT AATAAAGGAG GAAGGAGAGC AGCTGGGGTC
2701 TCACTTTGAG GGAGGCTGGG GACGTGACAG TCAGACACCA CCCTGAAGAG
2751 GCCACTCGCT GGCTTACCC TCTGCATCTT AAAGTTATTG GGAAGGTTTG
2801 ATACACAGAG GAGATCCATT CTAATGGAGG GTTTGATTAG GGGACTAGAA
2851 TCACAATAA ATTCTAGAT GAGGAACTGT TTATATCCAA CTCTGAGAAC
2901 AGGTTAGGGT TACATGGGAT TGGAAGAGAG GGTGGGGTCC CTAAAAGAA
2951 AAGCCCCAGA AACTCACTGC TGCTCTATCC CTCCCCTATA AGTTCTCTTT
3001 GTTATCTTCC ACCCAGGACC TGTGAGAATC CCACCCTTCC TTCTGTCTCC
3051 CATCGAAGTC CTCCAGGAAA TGCAGCTGTT TCAGTGACAG GGGGTGATTG
3101 CCATCTTCCA ACTGAGGAGG AATTGGGGT TTTGGTCCAG TCCATGAAGT

FIGURE 3, page 1 of 41

3151 GTGACACAGT CAGAATAAAA GGTGAGGGCC TAACAGATTA GCAGACGGTA
3201 GGAGAAGACT ATCTTGCAGC CAGCTTCAGA GAGCCTGTGG CCATGGCTCC
3251 CAGGTCAACA TTAGGCCCTG TTGCCTGGGA ACCCCTGGGC AGGCAGTGGG
3301 AAGGTTGAGG TGTGGCTCCT GGTAGCCTCA GAACTGCCAC TATTTCTCTGA
3351 AGCTCCTACT TGTTCTGTCA GCTAAGCCCC CATCCCAGTA GGCCAGCAAC
3401 ACCCTCAAGA CCAAGAACAG GCCATGGTGA ATCTCAGGGC CACTAAGTAC
3451 CTGGGCTGGC AGGGGCAGAG TGCCTCAGGG CTCAGTGTTC TTTGGGCTGA
3501 GCATGGGCTT TGGGAGTCAG ACAGCTGCAC TGGGCTCCCA GCTGCACCAT
3551 GGCCAGCCCT GTGTATGGGG CACTGCTCTG TAACTTGAGA CACCATAGTC
3601 ATAAATATAA CACACCCTTC TAACTGCTTT TTCTTTTTTG TCTATTTTTC
3651 TCTATAATCC CCATGTACTA CTGATCTGTT TATTTAAATT AATAAACATG
3701 TTATACAGTG TATATTGTTC TTCCTCATGA TTTCTTTACT ATATTGTGTG
3751 ATTCCACTCA TATGAGGTTC TTATGGATGT CCCATTACAC GAAACACAAA
3801 GTAGAAGAGT AGTTAGTTCC CAGGGGCCAA AAGAAGGTAA ATGGGGGCTG
3851 TTTCTATCTT TTATTTTTAT TTTTGCAAAA TGAACAAAAT TCCCTATGAA
3901 TGTGGATGAT GGTTCAGAA CAATCTGAGC ATGATTAATT CCTCTGACTT
3951 GCACGTTAGA AATTGTTAAA ATAGTTAATT TTATGTATAT TTTACCACAA
4001 TGTAAAAAAG GAATTTTTAA ATGAACAGAC TGTAGATACA TGCAACAGCA
4051 TAAATGAATA TCACAAATAT AATCTTGCAT TTAATAATTG ATGTAAAAGT
4101 ATCCAAACTA TATAATTTCA TTTATACTAA ATCCAAAAAT CAAAACCTGAC
4151 ATTCTTGCTT TCACTAATGG GAATTAGCTA GTTAAACTAA CACTCTCAGA
4201 GAGAAAAATG ATGAATCCTA GATAAAATAG TATATATCAT TATAAACACT
4251 TCTATATATA ATACATATAT GAGATATGTG TGTATAAGAA GTGAATGAGG
4301 ATGTCCCCTG TGCCCTCCTT AGGAGAGACA AGAATTGAAG TTATAATCCA
4351 GGCCAATTAG CACTCTCTTT AAAAATCAAC ACTCTTCAAA GGGACACAAC
4401 AGAATCCAGA GTCTCTATAA CTCTTGATA CAGTCTCTTG TACACAATTT
4451 TCAAATTCGT GAGATGGGTG AAGACACATG AAAATGCAAT ACATACACAA
4501 GATAAAAGGC AGGCAGTAGA CATCTCCAAG ATATCCAAGA TGTAATCAGC
4551 AGACAAGAAT TTGAAGGCAG CTATTACAAG TATGCTAATG GAGGCAAAGG
4601 AAAAAATATA CTTATAAAGG AACAGATGTG GAACCTCAGC AGAGAAATAA
4651 AAAATAGCCA AATAGAAAAA TAAGACACAA AAAGAATAAT TTTGAGCTTA
4701 TCTATAGATC AGAAACAAAA CACACAACAA TAGAAATTAT TCAATCTGAA
4751 GATACAAGTA AAAAAAAAAG TTTAAGGAAA ATGAACCCAG CCTTACAGAC
4801 CTCTCATGGG GCACTCTGGG AGTTGTAGTC TCTTCTCCGG TTCCAAACGG
4851 TGGCTGTTGT GGCTGCAGGA TAACAGTCCC AGATTGAGAC AGGGCAGAGG
4901 CTGTGTGCAG CCCTACAGGA AGGGGCAGGG TGGTGTAGGC CTCTTCACTT
4951 ACCAAGATTT GCTGGCCATT GATTCGTGC CAAACCCTTC CCAAGGGGAT
5001 TGGATCAGGA GAGGATCTTG AGAGTCACTC AGGCTCTTCC CAGAGCATCT
5051 GTGCCTCCTC CAGCCCACGG AGCTGCCTGA TTTCTTAAGT GGCTGTGGGA
5101 ACTGGTCTGA AGTACCAGAC GCTGTCTACT GTGCTGCTGC CCTCTGTTCT
5151 ATCTAACCAA AGTGCAAGTT CAGCTGCCTT TGAAAGACAT CCACTGCCTG
5201 ACCTGGGGAT GCACGGGTTC AGAGCTTTGC AGGGAGTGAA CATGGGCTGT
5251 GGCTTCATGA AAATATCACC CTCCCCAACG CGTTTTTGCA GATCTGGACT
5301 TGGAGGCACG AAGGACGGTA ATCATTGGGT TACCAAGGTG TTACTAGGAG
5351 CAGAGGAGAA AACCGCAATT CCTAGCCATG TGTCTGGTGT GACATTTTCG
5401 CAACCCATTT AAGTGTGCAG ACCCCCAAAT ATCTACCTAA AGATTATGAT
5451 AGTTTAGGCA TTTTACATTT AAAATTATTG GCTTCATGTC CACTGAAGCC
5501 TGA CTGGCCA GTGTCTCAA GACACAGATG ATGATCTGAT CCCTCAGGAA
5551 CAGATGGTTC TCCAGCTTTG TTGGAGTGAC TTTCAAGGTA TGGAGCACTT
5601 ATATAAATTT GCCTAAGAGT AGGATTTGTG CTAAGTACCT GTTCACAATA
5651 ACATCAAGGT TGTTTTGATT TAAGGGTAGG GCTTACATAA GCAGTAGATT
5701 TCAATATATA ACATAGATTC TTGAAACCCC CCAAAAAAAC ATTAAAGGAA
5751 GTACCTATGT CATAATTTTA ATTTTTTATT TAGTAATTTA AAATCTTAAC
5801 GTCTTGTTTT GTTAGCTAAT CTTAAGTTTC TACTAAAAA TTAGCATGAT
5851 TAAGCATGAA AATAATAGCT TTAAGACAGT TTTTACCCCA GAACCAAGTGA
5901 TTGGATAATA GGGTTCAGG CCCTCCCCTT CAGGTCCTGC GTGACAGAAT
5951 GTGAACCAAT TCATAGCCAA GCGAGGAGAG AGTGAAACGT TCCTAGGTGC
6001 AGCCCTTTTC AGGCAGGACT TACTCCTTAT GCTGAAACCT GGCCCTCACT
6051 ATGAGACATT TGCATTTAAC CTTGTATATA AGTTTATTTT TATTCATAAA
6101 TTATATATAT GCACATATAT GTATATATAC AGCTGGACAT GGTGAATCTC
6151 ACCTGTAATC CCAACACTTT GGTAGGCTGA GGGGCGAGGA GCTCTTGA
6201 CCAGGAGTTC GAGACCAGCC TTGGCAACAT AGTGTGAGCA CCCTCCGCCC
6251 CCCAACCTTT TCTACAAAAA AAAGAAAGAA AGAAAAAATA GCCAGGCATG

FIGURE 3, page 2 of 41

6301 GTGAGCTTG TCTGTGGTCC CAGCTACTTG GGGGACTTAG GTGGGAGGGT
6351 CATTTAAGCC TGGGAGGTAG AGGCTGCAGT GAGCTGAGAT CAGGCCACTG
6401 CATGCACTCC AGTCTGAGTG ACAGAGCGAG ATCCTCTCTC TCTATCTCTT
6451 CCTCACTCTG TGTGTGTGTG TTGGGGAGAG GGGTGTGTGT TTGTGGGTGT
6501 GTGTGTGAGT GTGTATGTGT GTTTATTATT CAAAATGAAA ACAACATAAT
6551 GACAATTATT TTTATTTTGA TTTTTTGTAG ACAGAGTCTC ACTTTGTCAA
6601 CCAGGCTCCA GTGCAGTGGT GCGATCTCGG ATCATTGCAA CCTCCGACCC
6651 CGAGATTCAA GCAATTCATC TGCCTCAGCC TCCTGAGCAG CTGGGATTAC
6701 AGGTGCCCAC TACCTTGCCT GGCTAATTTT TGTATTTTGA GAAGAGGCAG
6751 GGTTTTGCCA TGTCTCCAG GCTGGTTTTG AACTCCTGAG CTCAAGTAAT
6801 CCGCCACCT TGGCCTCCCA ATGTGCTGGG ATCACAGGCA TGAGCTGCCA
6851 TGCTCGACCA ATGACAATTA TTTAAAAATT TTAGATTTTA CAATCTTTCT
6901 GGCCTTTTGG CTTTGTAGGC AGCCTGAGCT GTGAAAATAG GCAATCCTCT
6951 ATTGCAGCAA TGTGCAATAG AAGTAAAATG TGAGCCACGT GTGTCAAATA
7001 AAATTTTGTA GTAGCAACAT AAAAAAAGAA AAATGAGTGA AATTGATTTT
7051 AATAACAATA TATCGGAAGT ATTTTAACAT ATGATCAGAA TTAAATTATT
7101 TTATATATAT ATTTTGGGAA GCACACAATT CAGCTCACAG CAGCCTCTGT
7151 CAGGACATAA CGTTTACATT GAGATCCCAG TAACCTAGCA ACAGAGGGAA
7201 TGACATACAA AGATTCTGGG GAAGAAGATT CCACACAGAT GATTCTATTG
7251 AGCAATGGTC CTGAAATGGG AGTGAACAGG GTGAGTTTTA GGAACCAGAG
7301 ACCAGTGATG GCAAGGAAGA GGTATGAAAA GCAAGGAGAG GAGGTGAAAT
7351 CACAGAGATC CAGTGAGATA TATAAACTTG ATTGTGATTT AAGCAGTTTC
7401 TACCTTTTGG ATTTTGTAGG CAATACTGTT ATTAACATGA GTGTGCCAAT
7451 GTTTCTTGCA GGTCTGCTT TGAACATTTA GATAGATATC CAGAAATGAG
7501 ATTGCCAGAT CGTATTAGAA TTCCATTTTT AGTATTCTGA GGAATATCTG
7551 TACTATTTTT CATAATGGCT GCATTATTAT TTTTCCACC ACCAGTGTAC
7601 AGTGTTCCAA TTTCTCTACA TCCTTGAGAA CATTTGTTAT TATTTCTTGT
7651 TTGATAGTGG CCATCCTAAT GAGTGTGAGG TAATATCTCA TTGGGATTTT
7701 GCTTTTTATT TCTCTCAAGA TTTGTAGTTT TGAGCATCTT TCAAATTCCT
7751 CTGGGCCATT TGTATATCTG GTTTTAAAA ACATACGTTG ATCATTTTGC
7801 CCATTTTAA ATAGGGTTAT TTAATTTTTG TTGTTGAGTT TTAGAGGTTG
7851 TTTATACATT CTGGATATTA ACGTCTATCA AATATGTTAT CTGCAATTTT
7901 TTCTCATTTT TTAATGACA TTTTACTCC ACTTAATGTT TTCTTTGATG
7951 TCCAGAAAGC TTATTACACT TGATGTAGTC CCATTTTTCT GTTTTATTC
8001 TTGTTACTTC TGCTTTAAT GTCATGTTCA AAAAATTACC AGGACAAATG
8051 TCACAATTGT TTACCCTATA ATTTATTTTA AAAGTTTTAG AGCTATCTTA
8101 CTTACATTTA AGTATTTAAT TCATTTAAGA TATTTTGTGA TACAGTGCAA
8151 GTGAAAAGTT AAATTTTCAAT TTTTAAATT TTGATATTCG GTTTTGTAAAC
8201 ACTATTTGCT AAAGCGTCTG TTCTCCCCT TTGTTGCGTC ATGGCAACTT
8251 GATTGAAGAT TATTTGCTGA TATTCATGAA GATTTATTTT TGGGTTCTCC
8301 ATTCGTGTTT ATCATCTATT TGTCTTCTG TTTGAATTTT TACAGCTTTG
8351 TAATATATTT TGCAATAAAG TTGCAATCCA ACTTTGTTCT TCCCTACAGC
8401 TATTTTGGCT ACTCATTTGC CCTTGAGATC CCATATGCAT TTTAGGACTT
8451 AAAATAATAT TTCTCCAAAA AAGAAAACTC AGCTTTTGTG CCAGACATGC
8501 CTTGAGATTC CATATAAATT TTAGGACTTA AAATAATATT TCTCCAAAAA
8551 AGTAACATTG AGATTTTGAT ATAAAATACT TTTCTTTGAA TTTGTGCTTC
8601 AATCCAAGTA GTATTGACAT CTTAACAATA ATAAAATTTT TGATCCTTGA
8651 ACAAGAGGTC AAGAGTGTGC TGTTTTAAAG TTCATATATA TTTTGATTTG
8701 CCAGTTTCCT TCTGCTTGTG ATTTGTAGAT GAGGGCTTAT TATGTTGCCC
8751 AGGCTGGTCT CCAACTTTTG GCCTCAAGCT ATTCTCGTC ATCAGCCTCC
8801 TGATGTATTT GGATTACATA GATAAGCCAC TGCACCTGGC CTCTTTATTG
8851 TTTTCTTAC ATTTTATGA TTTGAAGGTA ATTTTGTAAA AGATTTAAAA
8901 ATATGTATCT CTTAGAAGG TTTTCATTTT TAATGTAGTC AAAACACGT
8951 AAAATTGACC ATCTAAATA TTTTAAAGT ATAATTAAAT AATATTAAAT
9001 ATATTTGCAC TGTCATGCAA CATATCTCTA GAATGTTTTT GCTGCAAAAC
9051 TGAACTCAA TATCTATGAA ACAACAATA CCCCTTTATC TCCTCCCCTG
9101 AGGCTCTGAC TACTTCTGT TTCTAGGAGT TTAAGTACTT TAGATATCTT
9151 ATTTAACTGG AATCACACAG TGTCCTTTTG TGGCTGGTTT ATTTTATTTA
9201 CATAATGTCC TCAAGATTTA TGTTTAGTGT AAAAATAATC AGATCTCCTG
9251 CTTTTAAAAA ACTGAATAAT ATTCCATTGT TTGTATATTT CAAATTGTCT
9301 TTACCTACTC AATCACTGAG GGACGTTTGG GCTGCTTCCA CCTATTAGCT
9351 TTTGTGAGCA ATGCTGCAAT GCATATGGAT ATACAAATAA TTCTTCATTT
9401 GGCCATATAT ATGAGATTTT ATTTCTGTGC TCTGTTCTTT TCCGTTGGTC

FIGURE 3, page 3 of 41

9451 TGTCTGTCTG CCTTTATGCC AGTACCAAAT GGTTTGGTTA CTGTAGCTTT
9501 GTAATACATT ATAAAGTCAA GGAGTGTGAT GCCTCCAATA GCATTTCTTT
9551 CTTTGAAGTT TGTTTGGTTC TCGATACTCA CTTTAGATTG CATATAAGTT
9601 TTAGAATTTT TTTTGTATT TCTTCAAAAT AATATGACAG TTAAAAAAG
9651 ATGGAGATGG CATTAAATCT GTAGATCACT GTGTAATGTG GACATCTTCA
9701 CAATATTGTC TTCCAACCCT TGAATAAGAG CATGCTCAAA AGTATGTTGT
9751 TTAATTTCCA CATGTTTGTA GATTTTGCAG TATTTTCTG CTATCAATTT
9801 CTAATTTTAT TCCCTTTTAA TAAAAAATAA TAGTTTGTAA TATTTTAATC
9851 TTATTTTGTG TATGTTGTAT GTTGACACCC TAAACCCAG TACGTAAGAG
9901 TGTGGCTATA TTTGAAGAAA GTGTCATCAC ACAGATAATT ATGTTAAAA
9951 GAGGCTCTTG GGGGCACAGG TGGGGTGGTG GAGAGAAGGT CACATTATAC
10001 AAAATTTTCA TTAGGAAGAA TAAGTGCAAG AGATCTATTG TACTTGGTGA
10051 CTACAGTTAA TGTATTGTGT TCTTGACTAA TACAGTAGAT TTCGAGTGT
10101 CTCACAACAA AAACATGATG GGTATGTGAG GTAATGCATA TGCAAAC TAG
10151 CTTGGGTAA CCATTCCACA ATATGTGTGT ATTTCAAAAC AGTACCATAA
10201 ATGCAGACAA TTTTGTGTCA GTTACAATCA AAAAAGTTT AAAATGAGGA
10251 CCTTAGGGTG GGTCTAATC CAATCTAAGT GATGCTCCA TGAAAGAGGA
10301 AATAAGGATA CAAATGTGCA CACAGAGAGA AATGGCCACA TGAGGACACA
10351 ATGAGAATGT GGCTACTTAC AAGCCTAGGA GAGAGGCCCTC CGAGAAAACA
10401 CACCCTACCC ACACCTTGAT GTTGACTTC ATCCTGTAGA CGAAGTCCTC
10451 CACCCTCCTT CATCAGGTGG AAGCCTTTGA TTCTGAATAT TCTCCAAATG
10501 CTGGAAGGTA CAAAAGTGAA GAGACAGCAC AGACCTCAGG GTGAAAAGTT
10551 TAAAGAGAAT AACATCTTTC CATTGCTGTG TCCTATCCCC TACACACACC
10601 TATTCCAGTC TTTATTGGTC TTTTGTGTTT TCGTGTCTG GGTATAGTGT
10651 TAGTTGTAAA TCTGTGTTTA CATAAGGAT AACATAAAAC AAAGGTAAAC
10701 AATAAAATAA AAACAGACAG CAAAACCTCAA CTAATAGTGT TTGGGCATGG
10751 TGACAGTGAA GACAGGAGAG TCACATAAAA ATGGAGGTGG AACTTTTGAG
10801 CTAAATCAAT GTCCTGTTGT GTTTCTGTGT TTCTACATCA GACTCTATAG
10851 TGGCAATTGT CAGGTAGGT GTTTTTATCC TTGCCTGCTC AGTAAGTGCC
10901 AGAGGAGATT TTTCTAACT GGGTGAGGAA CAGGTAGAGA AGTGTAAGTG
10951 AGACAAACTT CCTGCCATT TGCCAAAGTG GCAGCACATA ATGTATCATG
11001 AGTGCCTCTA CCCTCTGATA TCCAAAATAT CAACTCTATA GATGATGTTT
11051 TGTGGCTCC TAATTTAGAA GCATCTGCCT TCATACTCTT TCCTAGAATG
11101 GTAACATCTC TCTGTCAGTA GCTGATAAAA TTAATAAAAT CTCATAGTTC
11151 TGTTTTCCAG TTAAGGTTCA CTGCAACTAT ATGGGCAGAT TTACATAGCT
11201 CAATTCTTCC AGCTTGACAT TGTTTTCTTT TGAAGCTTCT GAGAGAGGGA
11251 GTCAGCCTCC ACCTAGAGGT GGCCCTTGGA GTTTTGTGACA CAGAATCTCC
11301 CTGACACTAC TACTTCACT GATTTGAAAG TCAGTGTTGA GGTGGCTTG
11351 CTACAATGCT CTTGTCAAAC TGAATCCTGC CACATCAAGG GCTTGGGGCT
11401 TCCCAGCTTA ATTTTCCAAT TTTGAAGTGA GAGAATTTGA GTTCTACAAG
11451 ACATCAGAAG ACCGCTTAGA ATATAACACA TTCTAAAAGT AAATCGGAAT
11501 GCCACAGGAA CATCTTAGTT GTAAAAGAAA AATTAGGTTT TTTGGTAAAA
11551 ATTTTATGCC CCTTGATATG GTTTTGTGTG GTCCCCACCC AAATGTCATC
11601 TCAAGTTTTA GCTCCATAA TTCCCAAGTG TTGTGGGAGG GACCCAGTAG
11651 GAGATAATTG AATCATGGGA GTGGGTTTCC CCATACTGTT TTCGTGGTAG
11701 TGAATGAGTC TCATGAGATC TGATGGTTTC ATAAGGAGAA ACCCCTTTGC
11751 TTTACTCTCA TTCTCTCTTT TCTTGTGTTG CACCAAGTGA GACATGGCTT
11801 TTACCTTCTG CGATGATTGT GAGGCCCCCT CAGCCATGTG GAACTGTAAG
11851 TCCATTAAAC CTCTTCTTT TGTAATTTT TCAATCTTGA GTATGCTTTT
11901 ATCAGCAGTG TGAATGAA TGAATACACC TCCCTTCACT GTTTGAAGAA
11951 AAACGCTGG CTCTATGAGG TCTTCAGTTC ACTGAATATT TTTTAAATGC
12001 CTAGCCCTAA CTCACTGACA AGTCAAGGAA GCTGCCACCT TATGGTGTTC
12051 ACTAGGCTAC TGTGGATAGC CCTCATTGCC AGGCACACAG AACCTGAAGC
12101 AGGGGTGGCT GCTCCACTTA ATGGTGAGAG CTCAGGGTTT TGGGTCATTG
12151 TACATGTTCT AACTGTTTGG TCTTCCACAT TGAAATTAAA GGCTATTAGA
12201 TTAAGGACAT CCTTTTTCAG ATTCAAATCA TGCAGAATTT CAGCTGCTGA
12251 TCTGTAAGGT CATTCATTTA AGAGTCCATG GTAAGGGTTG GTCCTCCGAA
12301 AATGCTAACC ACAGTTAAGC CAAAAACCAA GCCTGAACCC ATGTGTAATG
12351 CAGTGGTCAT CACTGCATGC CAGATTTGTT CTCCTTGGTG AAAGTTGACC
12401 TATTTGTCTC ATGGTTTAGA AGGCCCCAGA CCATTCTTGG CATAATAACT
12451 GCATTGGCCT TTGGCCACT TCCTGAAGTG TTGGTCATGT CTCACCACTA
12501 TTAACACTTT TAGGATAATA ATCAGCTGAC TCCAGCCAAA GCATGTGTCC
12551 CTTGAAGCTC ATTCATGTAA TATTTTAGGC TTTTGAGACC AATTGCACTT

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12601	AAATCACATT	GTAAC TTTTA	TCAC TAAATC	TGTTAACATG	GCCAAACTGT
12651	TTGATTTTAC	TTCC TTTTTT	CCTT TAGGTT	CACACATGTT	GGCTACGTAA
12701	TTTGTGTGATT	GAATGTGACT	GTCCCCCAG	CACCCAAAAA	TCTCTTCTTG
12751	ACTGACTCCA	AGATGAAGAG	AACATCATTG	AGTTCTATAG	GCATCCATTT
12801	TCAAAATTTG	ATATTTCTCA	CTGACCTTTC	CTGGACAGGA	TGTGTCTTTC
12851	TTTTCTAAG	CTGCAACCCC	AGGCAAATCT	TGTTTGTACA	TTCTCTGAAT
12901	GGCAGTCCAA	CCCAAAGTGG	GGTTGTGGTT	TTCAACTTAG	TTGTGGTGAA
12951	CATTACATA	GTTCTTGCAT	CCATATCATC	TGGCTCTACT	AGAAAAAAA
13001	ATTACTAGAA	GACAGTATGG	GTGACTAGAA	TAGAAAAAAT	GACTACTTAA
13051	AATTATAGGT	ACTGGCATAG	CACACATAAA	TTCTGTGGCT	GTAGAGGAAA
13101	GACAAAAACC	CAAAACCTAA	AAGTGAACAA	ATTAGACCCA	GGAATACAG
13151	AAAAGGAGGG	AAGTTAATAT	CTTTCTGTCT	TTCTGAATTA	TCCCTAGTGT
13201	GGCCAGAGA	AGAGTTGGGG	AGTCCTGTTG	GGCCAGAATG	AGTAGTAGTA
13251	TTAGTTAGAC	CAAAATGGTAG	AACAGGATGG	GTGGGTTCAG	TTTCTCTAAG
13301	GAATTTTCATC	CTTTTGTGAT	GTAGACATGG	AATCCCAGTG	AGCATCCTGC
13351	ACTCTCAGTG	TCCAAC TGTG	TGAAACCACA	GTTGTTTCTG	AAGACTGAGA
13401	ACAATTGCTT	TTTGCTGAGG	AGACAGCACT	CCACAGCTGA	GGTAAGGTGG
13451	ATTTCTATAGA	GCATTAATTC	CATTTTCTCC	TTCTTCTGTG	AGCTGGGTTT
13501	CTTTCTTCAG	TTTTTTATCT	AGAGATGAAA	TTACATTGTC	AATATTTGTG
13551	TAAAATAGAG	ATATAAGTCT	GGCAAGTAGA	CGCTTAGATG	CAACCCCTCAG
13601	CAGAAATTCT	GGTCTGTTTT	TCTTCTCACT	TTTATTCAAT	TTTGTCACA
13651	GAAAGATGCC	CTGACATGTG	GTCTCTCAAG	AGTGATTAGA	ACATTGTACT
13701	TCTAGAGGAG	TTAGTTGATG	GAACATGGCA	GAGCTTAGAA	TGAGGATGGA
13751	AGCCTCTGTC	CAAACTCTCC	AGGCTATCTA	TGTGTGGGAA	GTGGAGTCAG
13801	GAAAGACCCT	AGAGCTTTGG	AAGTGATCAT	TAAGAGAAAA	CAAAATCCCT
13851	GTAAATTAGA	GTACAAGGGA	ACATATTCAT	TAGCCACCTT	TAGAGTCAGA
13901	TGCTCAGGGC	TGAGCTGGTG	TGGGGGAGTG	TTCAGACCTG	TGCATGCCTG
13951	GGAAAGCCTC	CGATCATGTA	TGAATGGTGA	GGCTTCTGGG	TGCATGAGAT
14001	TGAGTGCCCT	TCCTTGGCAG	AGCACCACTG	AGTGAACAAT	TGATTTAGGA
14051	TCAAGCATAT	GGAGATCAAC	TTTATTTTGA	ATATCTCAAA	GACAGAAACT
14101	GAAAAGATTT	TTTTGCACTT	TGAAATTGAG	TAAGGGTGTC	AGAAACTTCA
14151	GTAAAAAAGT	CACAGGAGGA	AACCCAGAAG	TCTTATTCAT	CCCCAGAAAC
14201	CACCAAAATC	CTGATCCAAA	CTGTAAGAAT	TCACCTCGTA	AAAATTTGAT
14251	TTTTGAATAG	GAACAGCTCC	GGTCTACAGC	TCCCAGTGTG	AGCGATGCAG
14301	AAGACGGTTG	ATTTCTGCAT	TTCCATCTGA	GGTACCAGGT	TCATCTCACT
14351	ATGGAGTGCC	AGACAGTGGG	CGCACGTCAG	TGGGTGTGCG	CACCGTGCGC
14401	GAGTGAAGCA	CGGTGAGGCA	TTGCCTCACT	CACGAAGTGC	AAGAGGTCAG
14451	GGAGTTCCCT	TTCCATTCCA	AAGAAAGGCA	TGACAGATGG	CACCTGGAAA
14501	ATCGGATCAC	TCCCACCCGA	ATACTGCGCT	TTTCCGACGG	GCTTAAAAAA
14551	TGGTGACCA	GGAGATTATA	TCCTGCACAT	GGCTTATAGG	GTCCTACGCC
14601	CACAAAGTCT	CAC T GATTGC	TAGCACAGCA	GTCTGAGATC	AAACTGCAAG
14651	GTGGCAGCGA	GGCTGGGGGA	GGGGCGCCCG	CCATTGCCCA	GGCTTGCTTA
14701	TGTAACAACA	GCAGCCGGGA	AGCTCGAACT	GGGGTGGAGC	CCACCATAGC
14751	TCCAGGAGGC	CTGCCTCTGT	AGGCTCCACC	TCTAGGGGCA	GGGCACAGAC
14801	AAACAAAAAG	ACAGCAGTAA	CCTCTGCAGA	CTTAAATGTC	CCTGTCTGAC
14851	AGCTTTGAAG	AGAGAAGTGG	TTCTCCCAGC	AAGCAGCTGG	AGATCTGAGA
14901	ACAGGCAGAC	TGCCTCCTCA	AGTGGGTCCC	TGACCCCTGA	CTCCCGAGCA
14951	GCCTAACTGG	GAGGCACCCC	CGAGCAGGGG	CAGCCTAACA	CTTCACACAG
15001	CTGGGTACTC	CAACAGACCT	GCAGCTGAGG	GTCCTGTCTG	TTAGAAGGAA
15051	AACTAACAAA	CAGAAAGGAC	ATCCACAACA	AAAACCCATC	TGTACATCAC
15101	CATCATCAAA	GACCAAAAGT	AGATAAAACC	ACAAAGATGG	GGAAAAAACA
15151	GAGCAGAAAA	ACTGGAAACT	CTAAACAGCA	GAGTGCCTCT	CCTCCTCCAA
15201	AGGAACGCAG	TTCTCACCAC	GCAATGGAAC	AAAGCTGGAC	AGAGAATGAC
15251	TTTGACAAGC	TGAGAGAAGA	AGGCTTCAGG	TGATCAAATT	ACTCCAAGCT
15301	ACGGGAGGAT	ATTCAAACCA	AAGGCAAAGA	AGTTGAAAAC	TTTGAAAAAA
15351	ATTTCGAAGA	ATGTATAACT	AGAATAACCA	ATACAGAGAA	GTGCTTAAAG
15401	GAGCTGATGG	AGCTGAAAAA	CAAGGCTAGA	GAAC TACGTG	AAGAATGCAG
15451	AAGCCTCAGG	AGCCGATGCG	ATCAACCGGA	AGAAAGGGTA	TCAGCGATGG
15501	AAGATGAAAT	GAATGAAATG	AAGCGAGAAG	GGAAGTTTAG	AGAAAACAGA
15551	ATAAAAAGAA	ATGAGCAAAG	CCTCCAAGAA	ATATGGGACT	ATGTGAAAAG
15601	AGCAAATCTA	CGTCTGATTG	ATGTACCCGA	AAGTGACGGG	GAGAATGGAA
15651	CCAAGTTGGA	AAACACTCTG	CAGGATATTA	TCCAGGAGAA	CTTCCCCAAT
15701	CTAGCAAGGC	AGGCCAACAT	TCAGATTTCAG	GAAATACAGA	GAATGCCACA

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15751 AAGATACTCC TTGAGAAGAG CAACTCCAAG ACACATAATT GTCAGATTCA
15801 CCAAAGTGGA AATGAAGGAA AAAATGTTAA GGGCAGCCAG AGAGAAAAGC
15851 CAGGTTACAC TCAAAGGGAA GCCCATCAGA CTAACAGCAG ATCTCTCGGC
15901 AGAAACTCTA CAAGCCAGAA GAGAGTGGGG GCCAATATTC AACATTATTA
15951 AAGAAAAGAA TTTTCAGCCC AGAATTTTCAT ATCCAGCCAA ACTAAGCTTC
16001 ATAAGTGAAG GAGAAATAAA ATACTTTACA GACAAGCAAA TTCTGAGAGA
16051 TTTTGTCAACC ACCAGGCCTG CCCTAAAAGA GCTCCTGAAG GAAGCGCTAA
16101 ACATGGAAAG GAACAACCAT TACCAGCCAC TGCAAAATCA TGCCAAATG
16151 TAAAGACGAT CGAGACTAGG AAGAACTGC ATCAACTAAT GAGCAAATA
16201 ACCAGCTAAC ATCAAAATGA CAGGATCAAA TTCACACATA ACAATATTAA
16251 CTTTAAATGT AAATGGACTA AATGCTCCAA TTAAGAGACA CAGACTGGCA
16301 AATTGGATAA AGAGTCAAGA CCCATCAGTG TGCTGTATTC AGGAAACCCA
16351 TCTCAGTGC AGAGACACAC ATAGGCTCAA AATAAAGGA TGGAGGAAGA
16401 TCTACCAAGC AAATGGAAAA CAAAAAAGG CAGGGGTGC AATCCTAGTC
16451 TCTGATAAAA CAGACTTTAA ACCAACAAAG ATCAAAAGAG ACAAGAAGG
16501 CCATTACATA ATGGTAAAGG GATCAATTCA ACAAGAAGAG CTAATATCC
16551 TAAATATATA TGCACCCAAT ACAGGAGCAC CCAGATTCAT AAAGCAAATT
16601 CTTAGTGACC TACAAAGAGA CTTAGACTCC CACACAATAA TAATGGGAGA
16651 CTTTAAACACC CCACTGTCAA CATTAGACAG ATCAACGAGA CAGAAAGTTA
16701 ACAAGGATAC CCAGAAATTG AACTCAGCTC TGCACCAAGC AGACCTAATA
16751 GACATCTACA GAACTCTCCA CCCCAAATCA ACAGAATATA CATTTTTTTC
16801 AGCACCACAC CACACCTATT CCAAAATTGA CCACATACTT GGAAGTAAAG
16851 CTCTCCTCAG CAAATGTAAA AGAACAGAAA TTATAACAAC CTGTCTCTCA
16901 GACCACAGTG CAATCAAACT AGAACTCAGG ATTAAGAATC TCACTCGAAA
16951 CCGCTCAACT ACATGGAAAC TGAACAACCT GCTCCTGAAT GACTACTGCG
17001 TACAAAACGA AATGAAGGCA GAAATAAAGA TGTTCTTTGA AACCAACGAG
17051 AACAAAGACA CAACATACCA GAATCTCTGG GACGCATTCA AACCTGTGTG
17101 TAGAGGGAAA TTTATAGCAC TAAATGCCCA CAAGAGAAAC AGGAAAGATC
17151 CAAGATTGAC ACCCTAACAT TACAATTAAA AGAAGTAGAA AAGCAAGAGC
17201 AAACACATTC AAAAGCTAGC AGAAGGCAAG AAATAACTAA AATCAGAGCA
17251 GAACTGAAGG AAATAGAGAC ACAAAAAACC CTTCAAAAAA TTAACGAATC
17301 CAGGAGCTGG TTTTTTGAAG GGATCAACAA AATTGATAGA CTGCTAGCAA
17351 AACTATTAAA TAAGAAAAGA GAGAAGAATC AAATAAACGC AATAAAAAAT
17401 GATAAAGGTG ATATCACCAC TGATCCCACA GAAATACAACT CTACCATCAG
17451 AGAATACTAC AAACACCTCT ACACAAATAA ACTAGAAAAT CTAGAAGAAA
17501 TGGATAAATT CCTCGACATA TACACTCTCC CAAGACTAAA CCAGGAAGAA
17551 GTTGAATCTC TGAATAGACC AATAACTGGA GCTGAAATTG TGGCAATAT
17601 CAATAGCTTC AACCAAAAAG AGTCCAGGAC CAGATGGATT CACAGCCGAA
17651 TTCTACCAGA GGTACAAGGA GGAAATGGTA CCATTCTTTC TGAAACTATT
17701 CCAATCAATA GAAAAGAGG GAATCCTTCC TAACTCATT TATGAGGCCA
17751 GCATCATCCT GATACCAAAA CTGGGCAGAG ACACAACAAA AAAAGAGAAT
17801 TTTAGACCAA TATCCTTGAT GAACATTGAT GCACAAATCC TCAATAAAAT
17851 ACTGGCAAAC CGAATCCAGC AGCACATCAG AAAGATTATC CACCATTAGC
17901 AAGTGGGCTT CACCCATGGG ATGCAAGGCA GGTCAATAT ATGCAAAATCA
17951 ATAAATGTAA TCCAGCATAT AAACAGAACC AAAGACAAAA ACCACATCCT
18001 TATCTCAATA GATGCAGAAA AGGCCTTTGA CAAAATTCAA CAACCTTCA
18051 TGCTAAAAAC TCTCAATAAA TTAGGTATTG GTGGGATGTA TCTCAAAATA
18101 ATAAGAGCTA TCTATGACAA ACCCACAGCC AATATCTTAC TGAATGGGCA
18151 AAAATTGGAA GCATTCCCTT TGAAAACGGG CACAAGACAG GGATGCCCTC
18201 TCTCACCCTT CCTATTCAAC ATAGTGTGAG AAGTTCTGGC CAGGGCAATT
18251 AGGCAGGAGA AGGAAATAAA GGGTATTCAA TTAGGAAAAG AGGAAGTCAA
18301 ATTGTCCCTG TTTGCAGACG ACATGATTGT ATATCTAGAA AACCCATTG
18351 TCTCAGCCCA AAATCTCCTT AAGCTTATAA GCAACTTCAG CAAAGTCTCA
18401 GGATACAAAA TCAATGTACA AAAATCACAA GCATTCTTAG ACACCAATAA
18451 CAGACAAACA GAGAGCCAAA TCATGAGTGA ACTCCCATTC ACAATTGCTT
18501 CAAAGAGAAT CAAATACCTA GGAATCCAAC TTACAAGGGA TGGGAAGGAC
18551 CTCTTCAAGG AGAACTACAA ACCACTGCTC AAGGAAATAA TAGAGGTTAA
18601 ATGGAAGAAC ATTCCATGCT CATGGGTAGG AAGAATCAAT ATCTTGAAAA
18651 TGGCCATACT GCGCAAGGTA ATTTACAGAT TCAATGCCAT CCCCATCAAG
18701 CTACCAATGA CTTCTTCACA GAATTGGAAG AAACACTTTT AAAGTGATA
18751 TGGAAACCAA AAAGAGCCCG CATCGCCAAG TCAATCCTAA GCCAAAAGAA
18801 CAAAGCTGGA GGCATCATGC TACCTGACTT CAACTATAC CACAAGGCTA
18851 CAGTAACCAA AACAGCATGG TACTGGTACC AAAACAGAGA TATAGATCAA

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18901 TGGAACAGAA CAGAGCCCTC AGAAATAACG CTGCATATCT ACAACTATGT
18951 GATCTTTGAC AAACCTGAGA AAAACAAGCA ATGGGGAAAG GATTCCCTAT
19001 TTAATAAATG GTGCTGGGAA AACTGGCTAG CCATATGTAG AAAGCTGAAA
19051 CTGGATCCCT TCCTCACACC TTATACAAA ATTAATTCAA GATGAATTAA
19101 AGACTTAAAC GTTAGACCTA AAACCATAAA AACCCTAGAA GAAAACCTAG
19151 GCATTACCAT TCAGGACATA GACATGGACA AGGACTTCAT GTCTAAAACA
19201 CCAAAAACAA TGGCAACGAA AGCCAAAATT GACAAATGAG ATCTAATTAA
19251 ACTAAAGAGC TTCTGCACAG CAAAAGAAAC TACCATCAGA GTGAACAGGC
19301 AACCTACAAA ATGGGAGAAA ATTTTCGCAA CCTACTCATC TGACAAAGGG
19351 CTAATATCCA GAATCTACAA TGAACGCAA CAAATTTAGA AGAAAAAAC
19401 GAACAACCCC ATCAAAAAGT GGGCGAAGGA TATGAACAGA CACTTCTCAA
19451 AAGAGAGCAT TTATGCAGCC AAAAAACACA TGA AAAAATG CTCACCATCA
19501 CTGGCCATCA GAGGAATGCA AATCAAAACC ACAATGAGAT ACCATATGAC
19551 ACCAGTTAGA ATGGCAATCA TTAAAAAGTC AGGAAACAAC AGGTGCTGGA
19601 GAGGATGTGG AGAAATAGGA ACATTTTAC ACTGTTGGTG GGACTGTAAA
19651 CTAGTTCAAC CATTGTGGAA GTCAGTGTGG CGATTCTCTCA GGGATCTAGA
19701 ACTAGAAATA CCATTTGACC CAGCCATCCC ATTACTGGGT ATATACCCAA
19751 AGGACTATAA ATCATGCTGC TATAAAGACA CATGCACACG TATGTTTATT
19801 GCGGCATTAT TCACAATAGC AAAGACTTGG AACCAACCCA AATGTCCAAC
19851 AATGATAGAC TGGATTAAGA AAATGTGGCA CATATACACC ATGGAATACT
19901 ATGCAGCCAT AAAAAATGAT GAGTTCATGT CCTTTGTAGG GACATGGATG
19951 AAATTGGAAA TCATCATTCT CAGTAAACTA TCGCAAGAAC AAAAAACCAA
20001 ACACTGCATA TTCTCACTCA TAGGTGGGAA TTGAACAATG AGAACACATG
20051 GACACAGGAA GGGGAACATC ACACTCTGGG GACTGTTGTG GGGTGGGGGG
20101 AGGGGGGAGG GATAGCATTG GGAGATATAC CTAATGCTAG ATGACGAGTT
20151 AGTGGGTGCA GCGCACCAGC ATGGCACATG TATACATATG TAACTAACCT
20201 GCACATTGTG CACATGTACC CTAAAACTTA AAGTATAATA ATAATAAATA
20251 AATAAATTTA TAAAAAGAAA ATTGTTGTTT AAAATAAGTA AAAAAAATTG
20301 ATTTTTTTCA CCATATAGAT TTATCTTTCA TTTGACCTTT ATTTAATTAC
20351 AAGTTTTAGT TAATACATTT TATTTTACCT TTATGATAGA AATATCAGAT
20401 TCTTAAACTC AAAGCATTAA TGATGCCATC CCAAGTGTAG TTTTATTGCT
20451 CAATTAACTT TCTACTATGA TGCAAATTTG TGTGTCCTTC TAAAAACTCA
20501 TTTGTAAAAA TTTAGTCCCT GATGTGATAG TTTTAAACA TGTAGCCTTT
20551 TTGGAAGTGA CTAACCTCAGG AGGGCTTCAT CCTCATGAAT GTAATTAATA
20601 CCTGTAAATA GAGGTTGAAG GGAGCACCTT TGTCCCTTCT GCCATTGAAG
20651 ACACAGCAAC AAGGCATCAT TTATGAGAAA TGGGACCCTC CCCAGACACT
20701 AAATTTGCTG GTGCTTTGAT CTTGAACTTT CCAGCTTCCA GAACTGTGAC
20751 CAACGCATTT CTGTTATTTA TACATGACCC AGTCTAATGT ATTTTGTTTT
20801 AGCAATCTGA ACAAATGAAG ACACTTTCTG ATGCACTGTG GTTTATTTTT
20851 GAATTTATAG TTCCACTGAG CTATCTATAT ATTCAAAAAT CAACATGTCT
20901 CACAGGGTGG GACAGCCACT CTAATTATTT TTTCAGAGTT TCCTTAGCTG
20951 TTCTTATTTG TGTTTTCATC TATAGGAGTT CTCCAATACA ATGCCTGCTT
21001 CCACTACCAA ATGGTATCTA TATTGGGACA AAATTAAAT TATTAATTAC
21051 TGCTAAAAA ATTGATGATT GAGTAATAAT GAGTTTTCT GCTTTAGAAC
21101 ATGATGTGAT TTTCTATTTG TTTATGCTGA CTTTCTATA TTTGGAAGAC
21151 TTTTATGTT CTTTGTCTA CATTTTACAA ATTCTTGTTA GATCTATGTA
21201 TAGCTAGTTC ATTTTATTTT GTCCTGTTGA AAAGTAACT GTAGACAAT
21251 ACAAATTATA CAAGTTTTCT TGGCAGGGAA TGATGATGCA TATCTGTGGT
21301 TCCAGCACTT TGAGAGGCCA AAGTGAGAGG ACTACTTGAC AAGCCAAAGT
21351 GAGAGGGGTT GAGGCCAGCC TGGGAAACAT AGTAAGACCC TGGCTCTACA
21401 AAACAGAAGA AGAAATTAGC TGGGTACAGT GGTGCATGCC TGTATTTCCA
21451 GCTACTCATG AGGCTAAGGC AGGAGGATGG CTTAAGCTCA GGATGTAAGG
21501 CTGCAGAGAG CTTTGATTCT ATCTATGCAC TCTAGCACGG GCGACAGAGC
21551 AAGAACCTGT TTCAAAAAC ATTTTTTCT TGAGTAACAA GCAACTAATG
21601 AATTGTGGAA CACCGGACCA AAAGAGGTTT ACCATTTTAG TGGCAAAGTG
21651 TCAGAGGTAT TGAAGAAATG CGGGAGCAAA ATATTAAAT TATTTGATTC
21701 ATTGCAGGTA TAAATTTGTC TTATTTGGTT TACCTTATAG ACATATATTA
21751 CTATAAGCTT TTTGAGTATT TCTGATAACT TAAGCTTAAA TTCTGTTGTT
21801 GTTGTTTTTC TAATACAGGC ATTCACAAAA AATAGCTCGC ATTATGTTTT
21851 GCTTCTTTC AAATCAACAA GATGATGTCA CTGGGGAGGT CTAAGTATT
21901 CTGCTGCTC AGGAATGTTT CCAAGGCTTG GTCTCCTTTT TAATTTACTT
21951 TATAAATCAT TTTGTAATTT TTATCTCCCA CACATTCTGT ATCTTGTTAA
22001 TTACTTTTAT ACATATGTAA ATATATTTTA TGTATGATTT CTAAGTATAT

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22051	CACTCATGAA	AATTGACTGT	GACACAGGCA	TACCTTATCT	TATAGCACCT
22101	TATTGTGCTT	CACAGATGTT	GGATTTCTTA	CAAAATTGAAG	GGTTTTGGCA
22151	ACCTTATATT	GAATGACTCT	ATTAATACTA	TTTTTCCAAC	ATCATGTCAT
22201	CTTTGTGTGT	GTGTATACCT	CTGTCAGCAT	TTTTTAGCAA	TAAAGTACAT
22251	TTTTTATTAA	GGTATGTATA	TTTTTAATAT	AAACATGGGC	TATTTCAATT
22301	TTATTCTACA	GTATAGTGTA	AACATAACTT	TTATATGTTT	TGGGAAGCAA
22351	GAAAAATTGT	GTGACTCACA	TTATTGCAAT	ATTTGTTTTA	TGCACTGGT
22401	CTAGAGCAAA	ACCCATATAT	CTCAAAGGTA	CATCTATATA	TTTTTATTGA
22451	ATTGGCCCCA	TAACTGAAA	CGATAAATTG	CTATTCTTTG	ACTAAACAAG
22501	AGCTGTGGAG	TGTGGAGAGG	TCAGTGTGAA	AATGAAGTAG	AAGTGAATAT
22551	AAACAGTCTT	CTAACTCACA	CAGGTAGTAA	TACAAATTAA	TTATGGATGA
22601	AATATAAAAT	TATCTAAAAT	TGAATATTCT	CAGAAACATT	AATGTTTATA
22651	TCATTATGTA	TATGGACATT	AAGAACATAA	TAAAAATAAA	TTTAGATGAT
22701	GAAGGCTTTC	ATAATCTCAA	TGTAAAATGC	AAGAATAAAA	AATATAAAAT
22751	TTATCAATGT	ATAAAATAAA	TGACAATATT	TATATTATAT	TTAATATCCT
22801	GCAATACAGT	ACAATCAACT	GTAATGTATA	AAATAGAAGA	AAGTTTAAAT
22851	ATGGAATAAT	TAAAAGGAGG	CAAATATGAG	TCAGGTAAAG	AATAAATAAG
22901	TATGATCAAT	TATATTTAAG	ATACACTGAC	CTGAGTTTTA	TGGAAAAATA
22951	TTAATGGTAA	ACACCTTGTG	GAGTGATTTC	ACCATAATTT	TATTAACTG
23001	TAAAAATATA	TTAACATTTT	CCCACAGGGA	GTACAATTAA	AGATTTGTGG
23051	ATATTAGTCC	TCCATGGGCT	CAGCGTGGGA	AAGTTAGAGG	CTACAGCCTT
23101	TTCTGAATTA	AAAGAGAAAC	ATATAACTTT	TTATTTATTT	TTCTACAATT
23151	TAAAAATTTG	AAAGGCATAT	GAATGATTAC	ATCCTAATAT	TTGTCTGATT
23201	ATATAGAAAT	GCATGACTGT	CACCAGACAT	CTGAAAGACA	TCAAATGTCT
23251	AACAAGAAAC	ATAAAATTTG	TTTATAATCT	TAGCCCTCTG	TGAAATGCAG
23301	GGTTCACCAT	TTTGAGTATA	TTGTTCAAGC	TACTTTCCTA	TAGCAGGTTT
23351	TTGCTCTCAT	TCCAAGACCT	GCAATTTCTG	CTGAATGGGG	TCAGGGTGCA
23401	CCCAGCTCAA	GCCTCATCTG	ACCCACTGAC	AGGCTCAGTT	ATCTCCTGCC
23451	CAGGCAAGGG	ATGGGCTTCT	CTATCCAGGG	CTGGATCCCC	AGGGCCAGGC
23501	AATGTGGCTG	AAACAAGCCA	GTTCTTAGCA	GGGAAGACAT	AACCTACCTG
23551	GGTGGCTATA	AAATAGAAGG	TCTGCACCTG	AGCACATAGA	GGCCGCCAGA
23601	ACCGGGCAAG	CTGAGTGAGC	TGCTCCAGG	TCAGTGGAGA	ATGGACCTGC
23651	TGCACCGATA	CCCAGTATAG	GTCTTGATAA	ATGGCCTTGA	CACAGCTTGT
23701	AAAGTCACCA	AGCTTTTCTG	AAATGACAGC	CATTGAACTC	CTAGGGTCTG
23751	AGACCTGTGC	TGCTTGGTGC	ACCCAGTGTG	AGTCATGAAA	GGCCCTCTGT
23801	GGTGGGCATC	ACAGGTCTCC	TTGAGTTTAT	TGCTGTGCAA	AGTGGAGGAC
23851	TTTAGTTTCT	TTTTCAACAT	CAAGCTGTGC	TCCTCTCCTG	GACAGATCCC
23901	CGCAAAAGAA	GCATGTGAGT	GAGATACTCG	CCAGCAGAT	TCCCACCGAC
23951	CCTCATTTCC	AAAACCTCCC	ATGCACCTTC	AGGTGAACAT	TTGAATCTTC
24001	CCCTCCATCC	TGACCATATT	AGTACTTAAA	TGAAGTGAAG	TTTAACACCT
24051	TCTGAGTCCC	CAATATTCT	CTGAGTGCCA	GGATCTCAAA	AATTTTTTCA
24101	GTCACCTTGC	TGCTCAAACC	CTCTATAAAA	GTCAACTGCT	TATTTTCCCT
24151	TTGGGGGAAA	AAGGCAAAAT	TCTACCAGCT	CTGTCTTGGC	AGCTGTCCCT
24201	GGAAACCGAT	TTCTTTTCT	TGGAGTTTCC	CTCATGTGAG	CTCGACTCTG
24251	GTTCTGTTGA	TAAAATAAGA	GTTTGAGTAA	GTGTCTCCAA	CCAAACACCC
24301	TAGAAGCCTT	AGTTCATCCT	GGACACAAAG	GAGCTGAAGT	AGCTATCAAA
24351	CCCAGCTCTC	CTCTGTTCTC	CAGAATCCAT	GTCTATATGG	CCCTGGCTGC
24401	CAAAGAGCTC	CCAGTTTCTC	TGCCAGGGGA	GACTGTGTTG	CAGCCCTTTC
24451	TCTTTTACC	TTGAAAGAGT	CAATTTTAC	CTAATCTAGC	AGTGCTGTTT
24501	CTAGCTTTGG	GCTTAGTTTT	CTCAGAATTG	TTCTCTTCAT	TTAGATTGGG
24551	CTCTGATCCT	AGTGCAACAT	GGAATTTAGG	TGACTCACCT	CTCTCAGACA
24601	CAGAGTCTCA	TAGTCTATCT	CTGACAAATA	TTTGTGGATC	AGTCCTTTAA
24651	GTGAAGCTCT	TCTGCCAGTG	TCATAAGTGA	AGATGTTTCT	CAAAGTCTCC
24701	CCAGGGCTCT	AAGCCATCTT	CCATCCCCAA	TTTCAAAATA	AAACCCTACC
24751	CAGAGACACA	CAGCTCAGTA	TCCCTGATTG	CAACACTCCT	TCCAGCCTCC
24801	ATAGGAACAG	CCCAAGGCAT	TACCCTGTCT	TTGCCTGTGC	TTCTCACTGG
24851	AATGGGAGGA	GGGGTCTCG	GCTTTTGTG	TGAATTGTCT	CTTCTTATCT
24901	GAGCCCTTTT	CTGTAAAGGA	GATCTGTTGG	AAAGAAGGCT	GGTCAGTGGG
24951	GCATTGGATG	GAGGAGCAGT	GGAGAATTAG	GGTATTCATT	TCCCTTTCCC
25001	TTGTTTAAGC	TCAAGTGAAG	GGTGCTCTCT	CTTACACATC	CAGATTTCAG
25051	CTGTGTGTTA	TTCTGCTGGA	CCTGCCTTTT	ACATGTCCTT	GGCTGGACGT
25101	GGCATACTCC	TATTGACTGA	ACAGTTTCCT	TTTTCTTGCC	ACTCATTAGG
25151	GCCTCATAAG	AAAAGTTTCT	TGCTGTAGTT	TTACTAGGGA	CCTAGACACA

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25201 GTTAAAGAGG GACATTTTCT GGGTCTTGTC ATAGTGTAAG AAAACCCCTAA
25251 ACAAACAAAA AACAAAGCCA GGGGCACAGG AATCAGAAAA TAGGGGAATC
25301 ATTTTCTTAA TTTCTGTCCC AATTCCACCT GGAAGTATTT ATGATACTGT
25351 TTATTTTTCA ACATGCAGAA TTAAACATAC CTATATTGAA ATGTGTCATA
25401 CATTTGGCAA AGGAAGAGAA TTACACATAG TGTAAAAATC ATGTACATAG
25451 ATATTATAAT TTTTCAAATG CTTGGAAATG TCAAATTAAA ATTATGGTTG
25501 ATTGTATTAA ATAGATACAT ATATGATAAC ATAAAAATAT GAAGAAAAAG
25551 TAAATACCAA ATAAAAATGGC TCAAATAATT AGAGATTAGA CAATTAATTA
25601 GACAATAATT AGATCAAATA CAATCAACTC GAATTTATTT AATTAGAGCA
25651 GATGCTAAT TAATCAGCGC CTGATTCTTG AGGTAGCAAA AAGTCTAGGT
25701 GGAGAGAGAA ACTTACCCCT TTTCTTACCC TTCCTCGGTC ATCCTGGGAG
25751 CTCCACTTTC CTCTGTAGAA TTTATTGAGC CTCCTTAGTA AACATGGACT
25801 TGGTCCCAAA CAGGTAACCC AACTGACCAC AAGAAAAGCA GCCTAGATCC
25851 TGAGCATTCA GCTCCTGTCT TCACACAACA GACACCACCT CAGTCCCATC
25901 AAAGCCTGTG AAGTTTCCCT ACATCCACCA TTGAGACATA TTCCAGAGCA
25951 GCCTCTCAAA ATTGCCTTAA CAGGATGGGA CACGATATGG TGGAGCTCCT
26001 GGCTCAGGAC AGCTGCCTCA CCCCTTCCCTA CTGAGAAGTC TGTATCTGCT
26051 GGTTAGAGCT ATCAAAGTGT AGAAGGCTTA GTGCCTGTCC CAGCAAGTGT
26101 CCCCTCAAAA GCCTTCTTGT TTTCTTTCCT TCTGAGAAAA GCATACAAGA
26151 ATGAGACCTT CTATGTTAGA GAGAACTCAG CCTCCACTCT CAATTGACTT
26201 GGTGACTGA TGAATTGATG CCCTGAGGAG GGGATAGATT CAGGGAAGAG
26251 ACTGTGCTGA ATGAGTCTGT GTTTTCCTAG CTTTGCTGTC TGTGCAAATA
26301 GTGGAACCCA GAAAAATATC GGGTGGTAGA CACACAGACA CTCTAATTGT
26351 CTGAATTTAA ATATTATTTA AATGGAACCT ATAGATCAT TATATATTGA
26401 TACCATAATA TCACATAAAA TTTGTTTGAT ATATAAACAA ATATTGATAT
26451 TTTATCATAA TATCATAAAG CAGTTGTGCA CACAATAGCA GATAATATTC
26501 TCCGGTTCTA TAAAGTTTAT ATGTTAATGT TCTTACAAAA TTTAACTCAG
26551 TTATTTTATA AAATTACCTA ACAAATTTT GTTACTGTGC TATCATAATA
26601 ATACATAAAA CTATGAAATC ATAATATATT GTAATATAAT ACATATGAAT
26651 TATGATGTCA TAATGTATTA TATCACAATA CATATGAATT ATGCCATAAT
26701 ATATTATGTC ACAATACATA CAAATTATGT CATAATATAG TGTGACATCA
26751 TGATGCATGT GAATTATGAT GTCATAACAT ACTGTGATGC CACAATACAT
26801 ACAAATTATA TCATAATATA ATGTGATGTC ATAATATATT CATTTATTAT
26851 ATTTATGATT TTATAATAAC ATGAAATCTT GTCAGTTAAT TTTATAAGAA
26901 AATTGAGTTA AATTTTGTAA CAACATTAAC ATATGTAGAA GCTTACAATC
26951 ATGGTGAAAG ATGAAAGATG AGCAGGCATC TCACATGGTA GGAGTGGGAA
27001 CAGGAAAGTT GGGATAAGGA TACGCCTCAT TTTTAAACCA CCGGATCTCA
27051 TGAATATCA CCATGACAAG AACAGCACAG AGCCATGAGG AATCCATCCC
27101 CATGATTCAA ACACCTCCCA CCAGGCCCA CTTGTAACAT TAGGGATTAA
27151 AATACAATAT GAGATTGGA ACAAATATCT AAATATATC GTATGACCAT
27201 TGGAAAAACA GATGAAACAT TCATGGTTTC TACTGTCCAG ATACTTTCAT
27251 TCCAGAGCAA ATGGCTAAAT GATTGCATTC AACATTCTGA GGTGAGAAGA
27301 GAGAAGGGAG GTGTACAGG GACTTTGGCT GCATTTGTTT CACTTCCCAT
27351 ATGCTGTTGT TGTGAGTTCT AACATTATCA CCAGAAAGGC TATTCATGGA
27401 CAGAAGAATT ATTGCTATTG TTGTGATTAT TTCTATTTCT TTTACATTAG
27451 TAAAAATAAT TTTTCTAGCT TCTCATATAA TTTTCTTAAA AAAGCCCTAA
27501 GAGTTTTCGT TAAATTCCTT GTTATTGTGT GTCATAAAAA TTGACAGGGA
27551 AATGGCTAAA ATAGATTAAA ATTACACAAA CTCTAGGAGT CAATTCTATC
27601 AGGCAGGCTT AGGAAAGACA GAACTGGAAA TACTCCACCA GCAGAACACG
27651 AGATGCATAG GGCCCACTTT CTGTCCCTGC TGTCCCCAGG TCCACCCTCT
27701 TCTAAGGCCT CCTCCAGGTC TGGCTTCACC CTAGAATCTC CTCTACAGA
27751 ACTAATTAAA GGAGATCAGA AATTTGAGTG GTGACTCTCG CTGCCTCTCC
27801 TGCCTGCTG CCCCAATTT CCTGCAATA AAAAGCAGAT AAATGGGAGC
27851 AAATAGTTAT CTATTTGTGG GCCACAATTT CTTTTTCATT GAAGCCATAG
27901 AGACATCCCA TCTAGCAACC TGTTTTTTAT TTTTGCATAT CCAGTAGTTG
27951 CTCTACAAG CACAAGAAAG TCAATATAAA TACCAAAAAA TCCCTCTGGA
28001 ACATGTTATC CTTCTTTCT GTATCCCTTT CATCTGTCTA TACAGCTTTT
28051 ATCCATACA TTTTCTTTT TAAAGTGAAT AAATTTAAAA AGTGAAAGAA
28101 AAAATAGAAA TGCTGGGCCC TTCTTCTAAA TCCTAGAAAT TATGGAACAC
28151 AGCACCCACT TTCCAGGGTG TGATGAGGAT TCACTCACAT CATGTAAAGT
28201 TTCCAGCACA GTGGTCTGTA ACAGACTTCT GAACACATAG TACATGCTTA
28251 ATAAGCATTG TATTAATCTA TGTGTACATG TTTTTTTTTT TTAATCCAGA
28301 CTTACTCAA TGTGTATGCC TTCTCTAGCC TCTGTAATCT TTAAAGAACT

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28351 GGCAAAAAAT GACATGTTTG TAAATGGTGA TTGGTGGTGT CCACGTTGAG
28401 CCAAAACTCT CTGTGCTGTG GTAAGAGTGT TGGGTATCAG GAATTCTGTG
28451 TGCTGTGCCT ACTTTCTCTA GATGATTGCT ACTACCACGG ATGTAGTGGG
28501 AGAAACATCA GCATTAAGAG GAGAATTTT AAGAGAAGCT ATTTACGGA
28551 CCCCTTTCCA AAAGTCAAAA ATCACATCAA CTAAGAAAAA GGCCTGGAAT
28601 CAGAAATGAT TTATATGTGC ATTGAAAATT GAGGGGCAAT ACTTCTCTAG
28651 GTGGCTCTCA GAATAGGCTT TCAACTATAA TCACATGACC CCTTTAAAGA
28701 CCTACCCATA ACCTGTACCC TCCACCACAA GATCCTGTCT GTTGATCTTG
28751 GGTGGGAGCA TCCATATGGT TTTAATTAGG AAGTCAAATT GTCCCTCTTT
28801 GATGATTACA TAATATTATA TCTAGAAAAA TCTAAAGACC ACCAAAAACC
28851 TTTTAGATTG GATAAATGAA ATTTAATAAT GTTTCAGGAT TATTAATAAT
28901 CAATGTAGAA AAATTAGTAG CATTTTTATA CACTAATAAT GATCAAGCTG
28951 AGAACCAAAT TAAAAAGTCA ATTCCTTTTA CAATAGCTAC AAAAGTACCT
29001 GGAAATACAA TTAATCAAAC AGGTGAAAGA TATCTACAAG GAAAACTACA
29051 AAACATTGAT GAAAAAAATT GTACATAATA CAAACAAATG AGAAAAACAT
29101 CCCTGCTAAT GGATTGGAAG AATTATCATT AAAATGACCA TATTGCCCTC
29151 CAAAAATCTA CATATTAAAT GCAATTCCTA CCAAAATGCC AATGTTATTT
29201 TTTAGATAAT TAGCAAAAAGA ATTAATTTTA TTTGTAACCA TAGCAAAGTC
29251 TGAATAGCCA AAGCACATTT AAGCAAAGAG AACAAAGTTG GAGATATTAC
29301 ACTACCTGAC TTAAATTAT ACTAGAAAGC TTGAATAACC AACACAACAT
29351 GGTACTGATA CAAATAGACA CCCAGATCAA TGTAAAGAGAA TAGAGAACCT
29401 AGAAATAAAG CCACGTACTG ATCATTTACA AAATCAATAA AAGCATACAT
29451 GGAATAATGA CATTCATTTC AACATGTTGT GCTTGAAAAA TTATATTACC
29501 ACATGCAGAA GTATGAAATG GAACCCGTGA CTCTCACCAT GTAAAAAAT
29551 CAACTCAACA TGGATTAAAA GACTAAAATG TTAGACCTGA AATGATAAAA
29601 ATTCTAGAAG AAACCCAATG ATAAATGCTT CTGGACATTG GCCTGGGCAA
29651 ATAATTCATG ACCAAGATCT CAAAAGCAGA GTAGCAATA ACAAAAATAG
29701 ACAATGGAA CTTAATTAAA CTAAAAAGTT CCTGAAAAGG AGCTTTTAAT
29751 TAGCAGGTGA GCAGACAACC CATGAAATGA GAAAAATGTT TGTGAACTAT
29801 ACATGTGACA AAGAATAACT GTCTACAATA TACAAGGAAA TCAAACAACA
29851 AGAATAAAAC AAGTAACCTC ACTATAAAGC AGGCAAAGAA TGAGAACAGA
29901 TATTTTTCAA ATAGAAGACA ATGATTGCCA AGAAGCATGT AAAAAATGTT
29951 AAACATTGCC AATGATCAGA GAAATTCCAA TTAATAATCG CAATGAAGTA
30001 CCATTTTATA CCATTCATAA TGGCTAATTA TTAATAAGCA GAAAAATGAC
30051 AGATACTGGC AAGGATACAG AGAAAAGAGA AACTTATTC ATTGTTGAG
30101 GGAGTGTAAT TTTCTACAAC CTCTATGGCA AACAGTATAA AGATTTTTCA
30151 GAAAACTAA AAATGGAATT TCCATTTGAT CCTGCACTTC CTCTACTGGG
30201 TATCTACCCG AAGGAAAAATA ATTCATTACA TAAAGAAGAT ACCCACACTC
30251 ATATGTTTAT TGCAGCACTA TTCACAATAG CAACGATATG GAGTCAGTTT
30301 AAATTTATCA GTCAATGATT GGATAAAGAA AATGTACTAT ACATTTATTC
30351 CATGGAAAAC TACTCAGCCA TAAAGAATAA AATCATGTCT TTTGCAGCAA
30401 CATGAATGCA ACTGGAGGCC ATTATTGTAA GTGAAATAAT TCAGAAACAG
30451 AACATAAAGC ACTACATTTT CTTACTTACA AGTGGGAGCT CAATAATGCA
30501 TACACTTGGA CATAGAGATT GGAAAAATAG AACTGGAGA CTCACAAATA
30551 TGGGAGGTTG GTAGAGGGGT TAGGAATGAG AAAATACCTA ACTGGGAAAA
30601 TGAGCACCGT TCAGATGATT GTTGCACAGA AGCCCACT TCATCCCTAT
30651 GCAACATGTC CCTGTAATGA AGCTACATTT ATACCCTCTA GTGTATTAAT
30701 AAAGAGAAAA AAAGTACTT TTTTTCAGTT TTGACAAGAG GGCAACTGAC
30751 AAGAGGGCAG ACTGAATAGA CTTTATAATT TTCATAATAA TTTATATTAG
30801 AAAAAATACT TTAATAAAAA TAAAAAATAA TATGTATTT TTAAGATGG
30851 TATAAAAAAGA TAATTTGATG AATTGGAATA GTTAGGACTT AGCACATACA
30901 ATATGTTAAG CAAGATTCTA AGCCATTAGA CATTTGTAGA CAGAATATCT
30951 AACAGTATAA AATAAATAAC ACAAATATTC ATTGGCAATG ACAAATTGAC
31001 ATATTTTCAA TCCTATTAGA TGATATTAAA ACCATTACAA AATTTACTGT
31051 TTTGTTTCAT AATAAAAAATC GTAATGTAA ATAATTTTCT TTAATAAGTTT
31101 GACTAATTAG GCATATAGAG AAATGGGCAG TATGTTGACC AGTAAACAGG
31151 ATACAAATTA TTTTTCGAAA AGCAAACAAC ATTTTATAT TTTATTTATT
31201 TATTTATTTT TCTGGTCGGA GGAGCTGCTT TATTGTCTGA GGACATAGTA
31251 CGGTCTCTC CCTGGGAGGT GGGGTCTTCC ACCGGTCACC CGAGGCAGTG
31301 TTCCAGGAGG CTCCATGCAA CTCACTGCTG GGCTCAGCTG GGGGCTGGGC
31351 CTTGGAGAAG GCGAACTGTG CAGGGAAGCA GTAGCTGTGG GTCCCTACCG
31401 CCCGCTCTGC TTTGCTGCAC TGGGTCCCTG GTGCTCCTCG AAGTCCCACT
31451 GAGCCTGCGT CTCTATAGGA CCGTGACCAT CCAGCCCAGA ATCTTCTAGT

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31501 CAGAGCACAG TTTGACCAGG CCAGGCATTT CCGCTTCCTC TCCTTGGGCT
31551 GGACTTTGCA CTTGGGTTTC TTCCAGTCCT TCTTCTGCCG CCTGTCTGCC
31601 AGAGCTTAAA TTCCAGCCTC ACAAATGTTT CAGCTAGAAA AGGCGTGTCC
31651 GCGGCGCCTC GCACACTGGT CTCTTGGAAG GCACGGGCGG GTGGATTCTT
31701 CCAGGGCCAC CTGCAGGTCC GGGTGCTGGG CCCTGTGAGC TCGACCCAC
31751 CCCTGCCCCC CGAGCCCATC CACTGAGCCA ACGGTATCCT CAGCCTTCAC
31801 TTGCTTCCAC CATCACACCG CCCTACAAAG CGGGTGTGCG CTCTCAGCT
31851 CTCCCTGCAT GCCAGGAGCC GCCTCTCCC CTACCCTGGC CCTGGGGTCC
31901 ATGCCCACAG AACGCTGGGC AGAGGTGAAG GAACTGGGAA ATACCCCTTT
31951 CTCAAATGAC TTTGGGGTCC GCCTGGTCTT CTCTACTCCC TCCCACCCTA
32001 CCTGCACTGT TCCCTGGGGC CTGCAGTTTT AGCAAAGTTC CCTGCCCCC
32051 ACCCGTGTCA GGAAGCAGTC CTGATGCCCA CTCCCACCCT TTCCCTCTT
32101 CTGGCCCATC CTCTCTCCCC ACTGGGTCAC TGACAGGAAT CCCTCTCCTC
32151 CCTGCTGTCC CTGGAGCCTG TCTGCTTTCC GCGCTCAGCC TCCTCCCTGA
32201 CCGCTTCTCC CTCCTTATCC TGAATCTCCC GACTCCCGTG GGGTGGCCCC
32251 CCCACCCATC CCGGGGCCCC GGCAAAACCG ACAAATTAT TTCAAATGGG
32301 AAGATCTGAA TTCCACTGAA GTCATGACAA CAGAAACCTT TGTGGTCATA
32351 TTTTAAAGAA TGATAGTAGC AACTATCCAT GTAAAGTATA ACTAGCCTTA
32401 AAAATACCCA CCACTTTGCC AAAACAACA ACAAACCAT GTTATAGCTG
32451 AAAACAAAT TCAATAAACT TACAGGATAC AATATTAACA TGAAATCAG
32501 TTGCATTTTT GTACAGTAAC AACAAAGTAT CTGAGAAAGG AATAAAGAAA
32551 ACAATTCCAT TTACAATATT ATCAAATAGA ATTAAATACT TAAGTCATTA
32601 AATAGAATGA GTTAAACGAA GAATAGTAAA GATCTGCATA CTGAAACTA
32651 TAAATGATG ATAAAAAATT GAAGAATACA AAATGGAAAA TATATCTGT
32701 GTTCATCGAT TCTAAAAATT AACATTGTTA AAATATCTAT ACTACATAAA
32751 GTTATGCTAC AGTTAAATAA ATTTCTATCA AAATTTAAT GCCATTAAAA
32801 TAAATGTAAA ACAACATTT GTAAATTAG TATGGAGCCA CAAAAGACCC
32851 CAAATAGCCA AATATTGAGA AGAATAAAAA GGCTGAAAGC CTCAAACCTC
32901 TTGATTTCAA ACAATATTAC AAAGCTATAC TCATCAAGAA AGTATAGTAC
32951 TCATATAGAA ACAAATGAG TAGAATAGAG GACCCAGAAA TAAATTCACA
33001 CATATACAGT AAACCTGATCC CACCAAATTA GGAAAGATA GACACATCAA
33051 GAAATGGTGT TAGAAAAAAC TAGCTATGCA CACACAAAAA AGTAAAGCCT
33101 TCTCTTATCA CAAAATGAG TTTAAAATAA AGACATAAAC ATTATAACTG
33151 AAATATGAA TCCTCTAAAA AAAAAACAG GGAGAAAGCT CCTTGACACT
33201 GGGGGGGGCA NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
33251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
33301 NNNNNNNNNN CTAATGATAA CCTGTACTTG AAATTTGTTT ACAAAGTAG
33351 ATCTCAGGTG CCCTCACCAC ATACACAGAA ACGTATAAGG TAACTATGTG
33401 TGGGGATAGA TATGTTAACC AGCTTGAGGT AATTTAAAGA TATATACACA
33451 TCTAAAAGCA CTCTATTGTA CACCTAAAC ATACATACTT TTCAATATGT
33501 AAATCATAGC TCAATAAATG TGCGAAAAAA ATTAAGAGTA ATCAGTAGGT
33551 CATATTTAGC CACAGGTACA CTTTATTTAA AACTCTCTTG TGAAGTGT
33601 CTGGCTGAAC CTGGGAACGC CCCAGTACT TCTGACCCCT TGACTTCTCC
33651 AACACTACTT CTATTCTTCC TGTAGCTGGG GAAGATGTGA TAGTTCCCAA
33701 GAGTTTATG GTTCCAGGC CATGCAGATC TGGGAGGGCC ATCAGCCGTC
33751 CCCTTGCTCA TTGCGCACAG CTCCAGGCAA CCCATGTCAG GGCATCGCAT
33801 CCCGGCGAGG GCCACAGCAG ATAGCAGGGG CGAGGTAGCT CTGGCTGCC
33851 TGCAATCCAA TGGCCTCTGG CTCCACAGGC GTCCTTCAAG GCCCTACCAC
33901 AGCCCTCCT CTATGACCA GTGAAGGCAA TGTAACTGCA GAAGACACTG
33951 AGGAGGCAAG TAAGAAAAAA TCTTGGCCCC CGTGATTAA TTATCATTAG
34001 ATCACCCTTG TTGTATACAG GATCACTCTT TATCATTACT GCTGTAAAAC
34051 CTGCTACAAT TGGAAGAGAA AATGATCTGG AGCATACTCT TTGAATTCCT
34101 GAAGTTGCTG TCAGTAAGTT TCAGCAAAAA TTTATCTGA CCATGATTTA
34151 CAAAGTTATG TCCTGTATA TCAAGGCAGT CAAATGAAA CAATTGTTAA
34201 TGGAACCGG ATTGTTCCGGC TGACAACTAA ATGTGAGCCT TATGTACCTA
34251 AGCATAGACA TGAATGAAA ATTGGAGAGA CTAGGTTACC CTTTCACATT
34301 CACCTGGCA GTGATACTTG TGATGGCTGT GAACCACAGC AGGTGGAAC
34351 TCACTTTCAC CTTGATAAGA GAGAGAATTG TTTATTGAAT TAATTGTTTA
34401 CAGCTAAGTA GGGGAAAAAA GAGTTGAAA TAAGAAAATA ATTTTAAAAA
34451 TGTGAGTAAA GTATGTTTTA CATTATACAG ACTATGAAGA TGAATAGACA
34501 TTGAAGAACC TGAAACATAA AGATACAGCT GGAAAAAGTA AGGAGCCTAT
34551 TGGAAGTGAA GAACACTTCC AAAGAGTTGA TGCACCTGCA TCTGTTCAAT
34601 CTGAAATTAC TGACAGCAAC AAAAGTCAGA AGATGTTTGA GGAGGTGGGT

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34651	TGGAAAAAAG	AAGAGGGCCT	GGGGAAGGAT	GGTGGAGGAA	TGAAAACTCC
34701	AATTTTGCTT	TAGCTTTAGC	AGACACACGT	AGGCTTGAGG	ACAGGCAATT
34751	CCTCCTCAAT	TGAAGATGTT	CACCTTCTCC	AAAACAAAAA	CAAACCTGGG
34801	CAAAGCATGA	GATAGGTTTT	CTGAAAATTT	CCCAGAAACT	AAACCTTGAA
34851	AAGATGACCT	AGGGACTAGG	CCTTGGGTAA	AAAGGGGCTG	TCGAGTGAGG
34901	GTTAGTCATA	GAAGAAAAC	CAAGTTTTTT	AAAAAATAGA	GTTTGGAAC
34951	TCTATTTTAT	TTTATTTTAT	TTTTTGCAGA	ACTTTTCTCC	CAAAAAGAGT
35001	CTGTGGCACA	GTTTACCCCT	TCCTGATTCA	GAAATGTGTA	ATAAAGTTTG
35051	GTTTGCAACT	TTTCAATGCC	ATTTTTTTAA	ACTAATAAAT	AGTGATTTAA
35101	TCAAGTTATG	CAGTAAGTGG	ACTAAAGTTT	ACAGGGCACA	CATGAAGTGT
35151	GTCACACTTC	ATTATTTTAT	CGTGTGCTCT	ATGACATCCC	TGTGAGCACA
35201	AAGCCCTCTA	TGCACAATTC	ATATTACCAC	TACTGACGTC	AATATACATC
35251	TTGTCTCTGT	CTCCTCCTTT	CCCAGCANGA	CCCCCAGCAG	NAGAAATATT
35301	CAAAGTGTTA	AAATAAATCT	GCTGTATGCA	TCCTNNNNNN	NNNNNNNNNN
35351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
35401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNCCATTT	ACAATATTAT
35451	CAAATAGAAT	TAAATACTTA	AGTCATTAAA	TAGAATGAGT	TTAACGAAGA
35501	ATAGTAAAGA	TCTGCATACT	GAAAACTATA	AAATGATGAT	AAAAAATTGA
35551	AGAATACAAA	ATGGAAAATA	TATCCTGTGT	TCATCGATTC	TAAAAATTAA
35601	CATTGTTAAA	ATATCTATAC	TACATAAAGT	TATCTACAGT	TAAATAAATT
35651	TCTATCAAAA	TTTAAATGCC	ATTAAAATAA	ATGTAAACAA	AACATTTGTA
35701	AAATTAGTAT	GGAGCCACAA	AAGACCCCAA	ATAGCCAAAT	ATTGAGAAGA
35751	ATAAAAAGGC	TGAAAGCCTC	AAACTTCTTG	ATTTCAAACA	ATATTACAAA
35801	GCTATACTCA	TCAAGAAAGT	ATAGTACCTA	CATAGAAACA	AATGGAATAG
35851	AATAGAGGAC	CCAGAAATAA	ATTACACAT	ATACAGTAAA	CTGATCCCAC
35901	CAAATTAGGA	AAAGATAGAC	ACATCAAGAA	ATGGTGTTAG	AAAAAACTAG
35951	CTATGCACAC	ACAAAAAGT	AAAGCCTTCT	CTTATCACAA	AAATGAGTTT
36001	AAAAATAAGA	CATAAACATT	AGAACTGAAA	TAATGAATCC	TCTAAAAAAA
36051	AAAACAGGGA	GAAAGCTCCC	TTGACACTGG	TGGTGGCAAC	GATGTTTTGG
36101	CTTTGACAGA	AAGAACACAA	GCAACTAATG	CAAAAATAAA	AAAGTGGAGC
36151	TATATCAAAAG	TAAAAACTTT	CTCCACAATA	AAGAAAACAA	TCAACAAAAT
36201	ATAAAGACAA	TATATGGGAT	GGAAGAAAAT	ATTTGTAAAC	CATATGTAGG
36251	ATAAGATGTT	GCTATCCAAA	ATATACATAA	CACTAGTCAA	TGTGGAAAAA
36301	AAAACTCACA	GCAGAACAAA	ACAAAAACCA	ATTTCTTGAT	AAACTGGGCA
36351	AAATATCTGA	ATAGATGTTT	TCCCAAAGAC	ATACAAGTGG	CCAGCAGGTA
36401	TATAAAAAAG	TTCTCAACAT	TGCTAATTAT	CAAAGTAATG	AAAATCAAAA
36451	TCACAATGAG	ATATCACCTC	ATCGTGTTGT	TAGCACAGCT	ATTATCAAAA
36501	ATTCAAAAATA	CAAAAAAGTGT	TAGGGTGCAG	AGAAAGGAGA	ATATTTGTCC
36551	ACCATTGCTG	AACATGCTCA	CTGGTGCAGC	CATTATAAAC	AAAAAAACAA
36601	CACAAAAAAA	CAACAAGAA	AACCAGTAGG	GAGGTTCTTT	AAAATTTTTA
36651	AACTAGAAGT	ATCTTTAATC	CCAATTTGGA	GTATACAGCC	AATAGACATA
36701	AAATTAGTAT	CACCAAGCGT	ACCTGCACTC	CTCTGATACA	AATAAATAGG
36751	TAACTGTGTA	GAAAGAGATA	ATTTAGCTTT	TAATAAAGAA	TGAAATTGTT
36801	TCATTTACAA	CAATGTGAT	GAACCTTGAA	GACATTATGC	TAAGTGAAAT
36851	AAGCGAAATA	CAGAAAGACA	AATACTGCTT	GATCTCATTT	TAATGTGAAA
36901	TCTTAAAGAA	AGAAAGAAAA	AGAAAGAAAG	AAAGAAAAAA	TGAAACAGAG
36951	ACTAGAATGG	TAGTTACCAT	GGGCTAAGAA	TTGGGGAAAA	GTGGGGAGAT
37001	ACCCATCGAA	GGGTGCATAC	CTTCAGTTAC	ATAATAAAAA	ACTTCTGGGG
37051	ACCTTATGTG	CAGAATGGTG	ACTATAGCTA	ATAATAACCT	GTAATTGAAA
37101	TTTGTTTACA	AAAGTAGATC	TCAGGTGCCC	TCACCACATA	CACAGAAACG
37151	TATAAGGTAA	CTATGTGTGG	GGATAGATAT	GTTAACCAGC	TTGAGGTAAT
37201	TTAAAGATAT	ATACACATCT	AAAAGCACTC	TATTGTACAC	CCTAAACATA
37251	CATACTTTTC	AATATGTAAA	TCATAGCTCA	ATAAATGTGG	CGAAAAAATT
37301	AAGAGTAATC	AGTAGGTCAT	ATTTAGCCAC	AGGTACACTT	TATTTAAAAAC
37351	TCTCTTGTGA	ACTGTTTCTG	GCTGAACCTG	GGAACGCCCC	CAGTACTTCT
37401	GACCCCTTAG	CTTCTCCAAC	ACTACTTCTA	TTCTTCTGT	AGCTGGGGAA
37451	GATGTGATGA	TTNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
37501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
37551	NNNNNNNNNN	NNNAAGGATG	GTGGAGGAAT	GAAAACTCCA	ATTTTGCTTT
37601	AGCTTTAGCA	GACACACGTA	GGCTTGAGGA	CAGGCAATTC	CTCCTCAATT
37651	GAAGATGTTT	ACCTTCTCCA	AAACAAAAAC	AAACTGGGAC	AAAGCATGAG
37701	ATAGGTTTTT	TGAAAATTTT	CCAGAAACTA	AACCTTGAAA	AGATGACCTA
37751	GGGACTAGGC	CTTGGGTAAA	AAGGGGCTGT	CGAGTGAGGG	TTAGTCATAG

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37801 AAGAAAAC TC AAGTTTTT TA AAAAA TAGAG TTTGGAACT CTTATTTATT
37851 TTATTTTATT TTTTGCAGAA CTTTTCTCCC AAAAAGAGTC TGTGGCACAG
37901 TTTACCCCTT CCTGATTCAG AAATGTGTAA TAAAGTTTGG TTTGCAACTT
37951 TTCAATGCCA TTTTTTTAAA CTAATAAATA GTGATTGAAT CAAGTTATGC
38001 AGTAAGTGGA CTAAAGTTTA CAGGGCACAG ATGAGTTTGT CAAACTTCAT
38051 TATTTTATCG TGTCATTTAT GACATCCATG TAAGCAAAAA GCCATATAAG
38101 CAAAATTCAT ATAACCACTA ATGACTTAAA TATACATTTG TCTTTGTCTC
38151 CATATATTCA CAGTAAGACC CACAGCAAAA GAAATATCAA AAGTTTATAA
38201 AAATAAATCT GGCTATATGC ATTCTTGTTT ATGCCCTTTA GAACCTAGAT
38251 AAAAGGACCT TTATAATAAA GGTCTAAATA ATACCATTTA AAGCCTAAAT
38301 AATCAATATT AGGCTAAATA AATAAATAAA GGTCCAAATA ATACTATTTA
38351 AAGCCTAAAT AATACTATCG AAGAACTAAC GAACAGGTGA CATACTATAG
38401 AAAAGTAGTC TTTTACTGTT TTCTTCTGTA AAGAATCTGT TGTTTTGTGC
38451 TATATATTCA GCATTTATAT TTCATTTGTT TCATAGCTAA TGAAATATTT
38501 AGATATGAAC AACTGAGTAC AGTACTGAAA TAGTGCAC TG CATTTGTAA
38551 TTTTATAAAA TATTATTGCA GGCAGTGGAG TTGTGCCAGA GAAATCTGAT
38601 TTCTAGTACA AAAGGAATAC TTAGCTAGGG CCTGAAGTTT AAGATATTTA
38651 TTGAACATGT CCTCAATTGC AATATAAACA TTATAACATT TTTTAAAAAT
38701 TCTTTTTAAT ACATTCTGAA TTAACAAAAA ATTTCAAATC ATACCTTTTA
38751 TGAAGTTAGG GAAGTGCTAA TGAGGTAGAA TGGCAGTTGA AGCCAAAACA
38801 TCTGAATTTA GTAAATAAAT TTTACCCACA TTAGTTTTTT GTTAAAGGAA
38851 ACAATAATTC TCACCATATA CTATTTACTG CAGTGAAGTA TTTTCAGAAA
38901 CGTGTGCATA ATACATAATT AATTTTCTAA TGGTAATACA TTCTACAAAT
38951 TATTACAATT GTGGTTTCTT GAAGAGAGCA GTATTTCAAA TGAAGAAACT
39001 TGGAAATTTCT CATGAGGGGA TGATCATGAG GATGATCATG AGGGGATGTC
39051 AAATCCATGT GGGTTGTTCA GTTTCTAACA AGACAAATGG AATAAACATA
39101 GATGAAC TGA CTGCAGGCAT CCCAGTGTG CTGTCTTCCA TATGTGAGAA
39151 CAAAATTATA AATTATGTTA CACAAAAGGA GATAAGTTAC TAGTGTGAAG
39201 CGTTAGATAA ATTATATGGC ACATAAAACT GAGATATGAG GTTTGTATTT
39251 ACATGATTGA CAATATAATA AAAAAAGAAA CAAAAATAAT GTGGAAAAGA
39301 ACTACGAGAT TGTAAAATCA TATTTGGAAA AGAGGCAAAT GGAAAGTAAA
39351 CTATTGAAAA TGAGTAAAAA CTA CTGTACA GCATACAAAT TACACATTAA
39401 AATAGGCTGA GCTGATGAGT AGGACTAATA AACTGAAACG CTGAGCACAA
39451 TTAATGTAGT CATATACTTT TTAGAAGGCA AATTAATACA AAATACAAAT
39501 ATATTTATTT ATATATGAAG ATTAGCTGGG AAGAAATGAA AAATAATTTG
39551 TTTTACTAGA CTATATAAAC AGGAAGGTAA TATTCAAAAA ATCAGTGACT
39601 CATAAGTTTC AGAAATTGGA AACACATGAA TCCTATCAAA GAAATAATGG
39651 TTTTGGTTAT TGTGAATACT GCTTCAATAA ACATGGGAGT GCAATTGTCT
39701 CTTTGACATA CTGATTTTAT TTCCTTTTGA TATATACCCA GTGGTGAGAT
39751 TGCTGGGTCG TATATATGGT AGTTCTATTT ATAATGTCTT GAAAAATTTT
39801 CATGCTGCTT TTCTACCTG GCCGGGGCTC CGACAGCTGG GCATCCGGCC
39851 GCAGTCCCTC TCTCAGGATC CCTCCACCCT CCGCCTCCCA ACAGTTCGGG
39901 CTTTTGTGTA CGCTGTGGCT GCTGCTTCTG CTGCCGAAGC TTGGCATTGG
39951 AGACACCTCG TCCTCCTCTC AGGACAGATC CATGAACCCA TCGGCAGCGG
40001 CGGTGAGCGA TGCTTCCCT CTGCCACAAG GCGCGCCTG CAGAGCCTGC
40051 CGCGTCCGCC ACGCCAGAG CGTACCCGCA GCTCAGCGCC GAGTTACTCC
40101 TGCTGGCGGT GGCCAGGGAG TGA CTGGAGT CGCCGGACAC CCCTGGGGAG
40151 CAGGCGAAGG AGGAGCTGCA GCCACCACGT CCTCTCTTTC CCCAGGGATG
40201 TGCAGAATTA CCATGAAATT ATGACTCCTC ATCCTAAGAA TTACCAATGG
40251 GAAAATTGGA GTCTAGAAAA TGTTGCCATC ATTTTAGCCC ACCGGTTCCC
40301 CAATAGCTGT ATTTAGGTGA TAAAGTGCTC TCGAATGCAT TGCACAGACT
40351 CAGTTGCCAT GACGATTTTG TGAAAAGTAA CATGTTTGGT TCCCCAGAAC
40401 ACAATACTGA CTCTGGAGCT TTTAAGCACC TTTGTATTAT TAGTTAATGC
40451 TTTTAAGTCA TAATAGTTTA TCAAAGAAAA ATTTGAACGG TTGGAATAAG
40501 GACTCCACGC ATGTAATTGC AGTCCAGTTT CCTGATATTA CAAATCGTTT
40551 CCAGGGAGAA AAAGAGAGGA CCTGTGAAAA ACCTGATGAG TTGGCTATGA
40601 GTTTTATATCC ACCATCACTA AATGATGCAT CTTTAAATTT GACTGGATTG
40651 AATAAAGATT GTGTTGTTTT GAATCAGTTT CTTTTTGAAT TGAAAGAAGC
40701 CAAGAAACGC AAAGACATAG ATACTTCCAT TAAAAGCATA AGAACAATAT
40751 ATTGGCTGGA GGGTGGTCAT TCCGTAGGAA GTAATACCTG GGTACTTAT
40801 CCACAAGTCT TGAAAGAATT TGTACAGTGA GAGATTATTG TTCACACCCA
40851 TGTAACACTT CACCAAGTAC ATGATCCAAA GAGATCTTGG ATTGGAAAAG
40901 AGCAAAATAA ATTTGCTTAG ATACTTGGGG ATATTGGTAT GCAGGTGACT

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40951 AGCTGAATTC ATTCATGAA GGAAGCTCCC TGTATAGAGA ATCCCTTTAG
41001 AGTTCATGAA GTAGTTTGAG GCTACAAATA TATTGATGTA CTTGTTCAGT
41051 GGAAGAGCAT AAGCACTTTG AGTGTTATGA ATTCAGATAA TGGAAATGTAA
41101 TTCATAGGTG CATTGTCAGT ATGGGGGAAA CACACGTTCC TGAAATATGA
41151 GTGAAATATG CAATAGTATT TCTTCCTTGG GAATGTGAGC AGTTTTTAAT
41201 TTGTGTTGAG TTAGAATTAG TTAATTTAAA ATCTAACAAG GTGGTTTGTG
41251 ATAATACTGA GGAGATATAA GACCCTTAAA AGGAAAGTTA CAACATAGTA
41301 CTTCTAGAAT ATAATAAAA TTGTTTCTGT TGGAAATAGT GATTCTCTGA
41351 GTAATGTTAC TAATCGTGGT GATATTTTAA CAGTAATTAG CTATTTTGGC
41401 ACTTAAACT TGAATGGAAA CAGTTTATTT CTCTCAAAC AAAAGCAAAG
41451 GCACAATGTT TTCTCATC ATTTTGAAT AACTGTACCC TGCCTCTTGT
41501 GTTTTGTAAT CTCATTCACT CATTCTTTAA TGTGCCACCA AGTACTTTTT
41551 TCTTGAGAGT CAAAATATAT TTGTTTCACA ATGTCCAAA ATGTGCAAGA
41601 ATGTAAAGCT GGTTTTTAAA AACATAGCCA TGTGATGGCA TGTGCCGTTA
41651 GTCCAGCTA CTCAGGAGGC TAAGGCAGAA GGATCCTTTG AGTCCAGGCT
41701 ATAACGCACC ATGATTGTGT TTGTGACTAG CTACTGCACT CCAGCCTAAG
41751 CAACATAGTG AGACCTCATC TCAAAAAAAA AAAAAAGAA AAAGAAAAGA
41801 AGAAAAAAA GAAAAACAGA ACAAATTAGA CTTAAGTACC ATCACTTAAT
41851 TTTTAGTTGA CAGTCTTTAG TTGATTGTTT TGGATAAGAC ATTCTGGGGC
41901 TTCTTGAATC TTGGCCAAA ACCAGTTGTT TTTGAAACT GTTTTAAATT
41951 AAGCATATTT ATGTATTTTG GATAAAATC AACTACAAAG AAAATTTTAT
42001 TTTTTCATT ATATTAGTCT TTTTGAAAGA GAACAACCTA GGAAGATAA
42051 ATATATAATG CTCTATTTGT CAATGCTGTA TAAAAAGGA AACAGATTTT
42101 ATAAATCTAA ATCAATGTTT CTCACAATC ATGACTTTGT CTCAAAAAAA
42151 AAGTTATTTT TGCCAAAAT GCAAAATTAT ATTGCTGTGA CAAAAGTCAC
42201 AAGGAATCGC TTAACATCA TCCAGCCTGA GGCCAGATCA ACATATGACA
42251 GTCACAATTT CAACTCTGAA CTGCATCCAT GTGTGAGATT TAGAGTCTCA
42301 TTAGTGGAAT CTGCCATGT ATGAGGTTGA CAATCCTAAT TGTTTTCTAC
42351 ATGTGTCTAT GAGTGTCA CAAGTCACTGT TTGCTGGGCC CTGTTATGTA
42401 ACTCTCTCTA AACCCCAAGG GGTTTATAA ATACATGTGA GTGTCATAAT
42451 CTTCTGTGGC CATTTTAGAA TTAGTAGACC AAGGACCTTA GTTGTGGCCG
42501 TAAGCCTAGC TATTAAAGTC AAAATTACTC CTCCTGGCTG GGTCCATGTA
42551 AGAAAGCTAT CATCATGACT GTGGCCTGGG CCTAGGTATA CGTCACACCC
42601 CACCTGTGAG CAGAAACAGG GAGGAAACC ACATCATCTG AATGCTGGGA
42651 CAGGGAATG TCAATATTGC TCAATTGGTA GGACCCACAC AGGAAAGTCA
42701 CATCACCTTT GTGCTAGGCT CAGTGATATG TCACAATGCC CACTGTAGAC
42751 AGAACCTTGT CAAAAGAGTC ATATCACCTA GGTGCTGAGC CCAGCAATAT
42801 GTCACAATCC CCCTTTAGAA CAGGGCCAG TCATGAGAGG AGAGTCCTAT
42851 CACCTAGATG ATATGCCAG ATTTCTGTGA CAAACCTTAC TGGAGGCAGG
42901 GCACAGGCAG GAAAGTAGAG TATCATCACT CAGGTGATGG GCTCACAGGC
42951 ACATTACAAT GTCCCTTGTG GGTATGATCC AGACAGGACA GTCACATCAG
43001 CTCAGTGTGT GGGTCAGTTG TATGTAATAA TCCCAACTGT TGGCAGGGCT
43051 CATGCAAGGG AGTAAAGTCA ATCAAGTGGT GAGAAAAAAA TTGTATTTCA
43101 AAGTCACACC TACAGGAAGG TCCAGGGATG AGATTACAG TCCACACAT
43151 TTTCTGACTC CTAGGATAAG AGACAACAGC TTCTTTGAAT TTTGTTAAAG
43201 TACACAAATC ACAATCTCAA TGGTGGACAG AATTCATGCA TGAAAGCTCC
43251 AAACACACCT GCAAACACTG TCTAATTAGA GCAGCCACGA TCTCACAGGT
43301 GTGTGAATT TTGATATATA AGTCACCATT CTACCTGTGA ACTGTATCCA
43351 TGTATGAGAG TCACAATGTG AACTTTCAAC TGATCTGGGT ATGATATTCA
43401 GAACCTCAAC AATGGTCTAT GTCCCTATAG GAAGATGACA TTCCTCTCTG
43451 TATGTCGTGT GTGCTTGGAA GAGTCAAAAT GTCACCTGTG TGCTGGGCCT
43501 TTATTAGTCA CCTTCTGTGC CACTTAATGG CTTCATATGG TCTGCATGAG
43551 AATGAAACC TGCTCTAAGA TTTCATGATG GCATAAACCC ATGATCCTAC
43601 ATGTTGCCCT AAGTTGAGGC ATGAGAGTCA AAACCTGTCT TATTTGCTGG
43651 CTCCATGTAT GAGAGTCATC AGTGTGCCCTG TGAAGTGGT TCAGAAATGA
43701 GCCACCATCC CATTGTGGA TGGATCCAGA TATGACAGTC ACAATTCCAA
43751 TGGGAAATG TTTCTGTAAG TGAGATCCAG GGCTCGTGA GTGGGTCTCTG
43801 TTCACATCTG TAATCTTTAT ACAATTAGGA GATGCAGAAC CTTACTGATT
43851 GTTCTATGAG AGTAAAAATA TCTTCTACTG GCTGGGCCCT CATATGAGAG
43901 TCTTCATTAT TCCTGTGACC TGAACCTAGG GATATGTCAC AATCTTACCT
43951 GTGAGTAGAA CCAGGCAGGA GAGTCTCATC AGCTGAATAC TGAGCCAGGG
44001 ATATATTAGT GTTCCCCCTG TGGTTGAGTG CTGGTAGGAT ATTCACATCA
44051 CTATGGTGCT GGGACAAGTG ATGTGTCACA ATGTCCCCTG TGGGCAGAAC

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44101	CCAGGCTAAG	CATTACATCA	CACGAGTGCT	GGGCTCATCA	ATATGTCACA
44151	ATACCCTTGG	GAATGGGGCC	CAGGCAGGAG	AGTACAATAA	CATCATCTGG
44201	AAATGGGATG	AAAGGAATAT	CACAAAGCCA	CCTGTGAGAA	GGGACTAGGC
44251	AGGAGGGCTG	CATTACTGGG	GTTATGGGTA	TAGTATATGT	CACGATCCAC
44301	ACTGTGGGTT	ATAGAGAGAC	AATATATTCA	TCTCAGTTTA	TTTGCGGGTG
44351	GACAAAAGTA	TATGTCAGTC	ACACATGTGG	GAAGGTCTAG	AAATAAAATT
44401	TACATTCTTA	CAGATGNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
44451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
44501	NNNNNNNNNN	NNNNNNNTAAT	TTCTGGCTGG	ACAAAGTATA	TGTCAGTCAC
44551	ACATGTGGGA	AGGTCTAGGA	ATAAAAGTTA	CATTCTGTCA	GTATGTTCTG
44601	GGTCCAGGTA	TAAAAGTATG	CACCTCATAA	ACTTTTACAC	ACCTCATTTG
44651	CCCAAGTTTG	CAAGTCATGA	TATCAACAGT	AAATTGGATC	CATACATGAA
44701	AGACTCAACC	TCAAACAACA	CACATTAGAA	GAGTTAGAGC	CTAACATATT
44751	TGCTGAATCT	TAGTCAGAGA	CTCATCATCT	CACCTGAAGG	CTGGACCCAC
44801	ATATAAGAGT	AATAATACCA	CCTTTGGACT	GCCTTTGGGT	GTGAAATTCA
44851	GAAATTCAT	GGTGGGCTGT	GTCCATGTGG	GAGTGTGAAA	AACTTTACTG
44901	TCAGGAGTGT	ATGCAATGAG	AGTCAAACCT	TCAACACTGT	ACTGGGCCTT
44951	GTTTATTAT	TCTTTGCACC	ATCTGTGGGT	TTTTATACTA	CGTGTGAGAC
45001	TTGCAATCCA	CTCTGAAGCA	TTTGTCTTGT	TATAAACCCA	TGATCTTACT
45051	GTTAGCTAAG	TGTGCAGACA	AGAGTCACAA	TTTTGTTTGT	GTTATGGACC
45101	CTGTTATGAA	ACTCTCTTTA	CCACCTGAGA	GCAATGTGCA	ATATGCTTGA
45151	GTGTTGTAGG	GCTCTGTGAC	TTTTGTACAA	TTAAGAAACC	CAGAACACTA
45201	CCTGTTGCCC	TAAGCCTAGT	TACTAAAGCA	AACATCTATT	TTATTGGCTG
45251	GGTCCAGGTA	TGAGAGTCAT	TACTGGACCT	GTGAGCTGGG	TCCAGAAATG
45301	AGTCACCATA	CCACCTGTGG	CCAGATTTAC	ATATAGCAGT	CACAATTCCA
45351	ACTGTGGACT	TCATCTGCAT	GTGAGATTCA	GGAGCTCACC	ACTGGGCTCC
45401	CTTCATGCAT	GAGGGTGACA	ATTCTAAATT	TCAGCAGGAT	GTGGCTACAA
45451	GAGTCACAAC	ATCACCTGTG	CTCTGGTTTG	TATTATGAAA	CTCTCTGTAC
45501	CACCCAAAGG	CTTCATAATA	TACGTGTGTG	TGTCAGAATC	TCCTGTAACG
45551	TTTTACAAGT	AGGAGACTCA	GGACCTTACC	CTTTGCCCTA	AATCTATCTA
45601	TAAAGAGTCA	AATATCTTCT	ATCAGATGGA	TCCACATCTG	AAAGGCATCA
45651	TGATTCTCTG	GTGCTGGGCC	TAGTAAAGGT	CACAATCTTA	GCTGTGGGTG
45701	AACAGAAGGC	AAGAGAGTCA	CATCACCTGG	GTGACGGGCA	AGAGATATAT
45751	TACAATCCCT	TCTGTTGACA	GGTCCCAAAC	AAGGAGTTAC	ATCACCTGGA
45801	TGCTTGGCTC	TGTGATATGT	CACATTGCCC	AGTGCAGGCA	GGGCACAGGC
45851	AGGAGAGTCA	CATTACCTGG	GTGCTTGGCC	CAGTGCTATG	TCACATTCCC
45901	TTACTTAGGG	AGGGCACAGG	TAGCTAAAGG	GAGTCATATT	ACCTAGGTAC
45951	TGGGCTAGAG	CTATCAGTCT	GTTGGTCATT	CAGGGTGAGG	GTTATGATCT
46001	CTTTAGACAT	CCATGTAACA	GAGCCCCAAC	TCGTTTCATCC	TCAGAAGCAA
46051	AGGCCAGTGG	AGACCAAATA	AGGCTTGAAA	GTTAAGTCCT	CTAAAAGGC
46101	AGAATGTCCT	AGGCTTTGGC	CTCTCCTCTT	TAAGCACAAC	CAGATCATAA
46151	CCTCTCTTTT	GACTTCTCAC	TATGCCGCTC	ACTGGAACAA	GGCTCCTGAC
46201	CCCCACCCCT	CGTCTTTTCA	CCCCTGTACA	TTTATTGGGC	AGACCAAAGA
46251	TCCCGAGACC	TGAACCTCTG	GACAGTCTGG	GGAGAAGCGA	ATCCAAAAAG
46301	GGTTGGGGCA	GCAACGGCTG	AGCTCCACAA	GATGCCCCGG	CCCAAACTG
46351	CAGGCCCAGG	CTGTGGTCCA	TGTGGCACTC	AGTGCAGGTT	CTGCAATGCC
46401	ACTGGAAGGC	CTAGAAAATC	CACCTCAGCT	GCTGCTTCTT	CCTTTTCTTA
46451	AGCGCTGAAA	GGTATACACT	TTCCCAAGCT	TTTCAGATAC	GGCCAGGCAC
46501	CCCCAACTGA	AAAGGGGGAT	AATCGCATT	TTCATCATGG	TTTATCACCT
46551	CACCCAAGCA	CCAGCCAGCC	CCAGCCTCGC	CAATCCAGCT	GCCCCAGGCT
46601	GGAGGAGATC	CTGTCAAGCC	TCCTCTCTGA	AACTCCACTC	CTCCTCTTTT
46651	TTTTCTTCCT	CAACCACTGG	CATACTTTTG	GTCATCCTAC	TTTTCATCCC
46701	AATGGGGCAC	CTGATACCAT	AAAGACCTGG	GAACCCCACT	GATCACAGGT
46751	CCTACAGGGG	TCAGGCAAAC	ATACAGGAAG	TCCAGAAGGA	CAGTCATCTG
46801	CCACCTCCAG	TATGAGAAGA	ACAAAACCCC	CGCACTCCAT	GAAGAAGTCA
46851	GGAAACCCAGT	GAAGGCTGCA	GGTCCAGCCC	ACAACAACCT	ATGTATGTGG
46901	GGTGCTCCAT	GGCTCATACG	TGTGTCTGTC	AGGCTGGAGC	CCAAGCGAGG
46951	GTTGCGAGTC	TTTGTTCAG	ATGGGGAAC	ACTACTTCAG	CTTATTACCC
47001	AGGCTCCCTG	ATGGGGAAAG	GAAGGAAATG	GCGAGAATCT	TCAGCACAGC
47051	AAATCCCATC	GTCCTGGCAG	AGACAACTCC	TGCCTGCATG	CCACACCAGC
47101	AGCCGCAGGC	TAGAGGCGAGT	CACATCAGGC	CTCCCTCTTA	CAACATTTTG
47151	TTTTGTTTTG	TTTTTCGAAA	GGCCCTAATC	ACCTACTTTC	GGTCATCCTC
47201	CTTGTCACAA	TAGGGCACCT	GACGCCATAG	AGACTCGAGA	AATGTACAGA

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47251 TCTGGGGTCC TGAAGCGTCC AGGCGAAGGT GCTGGGAGTC AGGGAGGAAA
47301 GTCCTTTGAA GCCTCCAGAA GCAATGTAAC AAGACCCAGC ACTGCAGGAA
47351 GAAGTGGGGC ACCCAGTGGC AAATGCAGGC CTACGTGCAA GGTGCTCCCT
47401 GTCCCTCGCC TGCTCCCTGG AACCTGGAGC CGCACCTAGG ATGGGGGGTC
47451 TCCATTCCAG ACCCAGAATA AGCTCTTGGC TACCTCACCC AGCACCTGGT
47501 CATGCCAGAC AGAATCTTGG CTGGGGCTTT CTCATGGTCT GCAGTGCCTT
47551 CCACTTTGGG CCACCGTAAT AACACTTCTC CCACAGGGAC TCTGCAGTGT
47601 CCAGCTCACC AGCCTGGAGT TTCTCATCAC CCAGTGATTG CAAAAGAAAC
47651 AATCTACAAT GGCATGAGCC CAAGTGCCAG AAACAAACAA ACAAATATC
47701 TGAGGTAAGT CCATTGGTTA CTTGATTTT TCAAAGGTAA CATTTGTCCC
47751 TCCTTGAAAT CCTAAGAGTG CATGAACAGG CTATTCTAAT GGACGTGAAA
47801 TTCACATTAA AACTGATTGA CAGATGAATT CTGATTCCAA GGTACTGTTG
47851 TATTCTCAAA TTGCATCTGC TTACCCTGCC CCCCTCAAAA TGAAGAGTG
47901 ATGACTATTT GTCATCTTAG CACTGTGGGG ATGCAGAGCC TAGATGGAA
47951 GTGTGTTAAA AACAAACATTC CATAAAGGGC TGCTACTTCC AATTTTCAAG
48001 CAAGGTGGGA AACCAACCGT GATGTATGAA AACTGTCTGG CCAATGTGCA
48051 CAATTAGTGA TACAAAATTG AATAATATA ACTATTGTAA ATATGTGTGG
48101 ACATTGTGGC AATTGTGGACA CCAAATAACA CTGCCAAATT CAGGAAGAGA
48151 AAGCTGTAAC CTCATGGTTG TTATGAAGCT TAACTTCTGG GTACTAGAAC
48201 CTATCAAAAT TTCTCCATGC CAATCTGTCC AAACAAACAT TGAGATGTTT
48251 ATTTCTATAA AATTCTCTATA GAATCTTCCT GGGCATGACC CTTCTAGCCC
48301 CATCCTCACA GCACTGGTGC CAGAGGAACT GCACTTGCTC CTGCCTCCCC
48351 CTATATTTTT AGGAGTGGAA ATATTTAGTG ACAGGATGGA TTGGGAGGGT
48401 ACTAGGCCTT CCTGGGTGGG TGGGTCAGAT CTACTGCAGC CCAAGCCTTT
48451 TTATAATAAA TAACTTATAG GTAAATTAGA AAAGAATAAA AAATGCAACT
48501 CATTCTCTTT CTTTGTCTAC CACAAAGCAG TAAACACAGC ATCTAGAGAT
48551 GCTGTTGGAG CCAGGCTTGT CCTGGGAAAG TAAGAAGTGC TTATCAGGAG
48601 CCCTGGGATT GAGGGCAGGT GAGATGGGTT CCCAGGAAGA TACAGCCAGG
48651 GTCAGGTCTG GCCCACTCAC ACTGGAAGGG GCCTTCTGAA GGCCAGGAAA
48701 AATGGTCCAG GTCAGTAAAC CTCAAGCGGC CCATCTGAGC CAAAGATCTG
48751 TCCAGGTGCG AGTGAATCTC ATCAGCACTG CCAATAGGGG GTCTGATCAG
48801 CCCTGAAGAG CTCCATCAAT GGAGGCAGAT GGCTGGTGGA TGGGTCAGGA
48851 GAGCTGCCTA CTGCCAATGT GGGAGTCCAC TCGGTGTGGG TTTACTGCGC
48901 CTCTCAGTGG CCTGGATAAC CTGCTGAGGC TGCAGCTTCT TCCCGTTTTT
48951 GAGCAAACGG GGACATGTAT CATTCCCGAA GGTTTTGAGA TAATCCCTGG
49001 TGACCCCTGG CAGGGGATGG TTATCTTGGC GATCCCCAGC CAGGCTTATT
49051 GACTTGCCCC CAGGCAACAC CCAGCAATCC CGCGCCCACC CAGGCACCTA
49101 AGCATTGTG GTAAAGCTCT TCTTGGAAGC TCGCCTTCTG CTGCCCCTTT
49151 GTCTTCCCCA CCCCAGTACT TCTGGCCATT CTCATTGTCA TCACAATGAG
49201 ACAACTGGCT CCTGGAGACT CAGAACTGC CATGCAGACC TTGAGTTTTT
49251 CCTAGCCCCG GCCAACAGGG TGGAGAATCT TCCATCTCCT AAAGGAGCAG
49301 AACAGACCAG GCATGTAGGA GTTGTGCCCC TGTGCAGGCT GCAGGAGCAG
49351 CTCACAACAA GGCCCTGAACA TGGGGTGCTC CCTTGTGTTG CTTTTTTTCC
49401 TGGAGGCTTG GGCTTGCCCTG GCCAAGGTTG CCCTTCAGGA CAGGGAATCA
49451 GAGCTTTTTG TGGCTGCCTT ACCCAGCCAG GGCAGACCA GAGAGAATCG
49501 TGGCTGAGGC TTTCTGTGG GCTGCAGTGC CTGCCCCTTT AGGGTTTCCA
49551 CAAAAACACC TTCCCTGCAA GTAATCCACT GTGTCTGAT TACCAGACGA
49601 GGCTTCCTCA TCATTTGGTG ATTCCAAAGA AAATAATCTA CAGCGGAATG
49651 ACCAAGTTCT AAAACAGGAG CACACAAATA ATCTGTGGAA AGTCTGTTTG
49701 TCATCTAGAT GTTTCGAATA TACACATTTT CCCTTCTTGT TATATTCAGT
49751 CGTGCATGAA ACTGATATTA TAATAGATGT GCAATACACT AAAGCTGATT
49801 AAAGGGTGAA TTCTTATTCT AAGGTACTTT GTGGTCTCAA ATTTGTCTGT
49851 TCCCACCCCC AGGACTCCCT TAAAACAGAA TAGTTATCAC TGAGAGCAGA
49901 GGTAGAAAGA AACTAGCTAG GCAGATAGAG CAAAGAGTAC TCAGCGTAAC
49951 ATCCCTTCTA ATGAAAAGCA GCCCCAAAAA TCACATCTCT TTAACAAAGA
50001 GCAACCTGTA AGTTCGGGCT GCAATCATAG ATAAGTAAGA TGAAGCTTG
50051 TATGGGCAGG GATGGCTGCA GCTTCATGGA TAGAAATGTC CAGCTTGGGC
50101 TAGATACATC CAACATGGGG GCTCCACTCC TCTTTGTAGC ACACGCACCA
50151 TAGGAAAGAG ATAAGCAACT TGGAGTAGCT CAAAAGTCAC GGAGCCTCAG
50201 TGTCCCTTCT GTGGAGCCCA GAACCTGATG CAGGTCTAAG TCCTGTTGTA
50251 TGAACATGTC CTGACCCTGG CGGCCCTGGT GGTGGTGCAG CATAGGAAGT
50301 ATAAGGGATG AGGTCTAGTC ATGGGCCATG GAGCCTTTCT CATTAATCTT
50351 GGCTGTCTGC CTTCTAGGGA ATATAATCAA CACTAATAAA GGAGGAAGGT

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50401 GAGCAGCTGG CGCTGTCGCT TTGAGGGAGG ATGGCGATGT GAAAGTCAGT
50451 GACCACCGTG GGGAGGACAC TCCCTGGCTC CATCCTCTGC ATCTTAGATT
50501 TATTGGGACA GTTTGATACA CAGAGAAGGA GGAGACCCAT CCAATGGAG
50551 GGTTTGATTA GATGAATATA ATCAATGATA AATTCTTAGA GGAGGGACTT
50601 TTTATAATCA ACTCTGAGAA CAGGTTGGAG CTACATGGGA TTGGAGGGGA
50651 GGGTGGAGCC CCTTAAAGA AAAGCCCCAG AGACTGCCCC TGCCCTCTCT
50701 CTCCCCACA AGTTCCATTT ATTATCTTCC ACCCAGGAGC TGTCAGAATC
50751 CTGCCCTTCC GTCTCCAGAT CAAAGTCCTT CAGGAAATGC AACTACTTCA
50801 GTGACAAGAG ATAATTATCA TCTTCTGACA GAGGAGGAAT TTGGGGTTTG
50851 GTCCCGATCC ATGAAGTGGC ACAGTCAGAA TAAAAGGTGA GAGCTTAGGA
50901 GATTAGCGGA GGGTAGAAGA ACACCTCTGTC TTGTGACCAG CTCAGAGAG
50951 CCTGGGGCCA TGGCTTCTTG GTCAACATTA GGCCCTGCTG CATGGTGACC
51001 CCTGGGCAGG CAGTGGGAAG CCTGAGGTGT GGCTCCTGGT GGCCTCACAA
51051 CTGCCACTCT TTCCTGAAGC TCCTATTTGT TCTGTCAGCT AAGCCCCCAT
51101 CCCAGTAGGC CAGCAACACA CTCAAGACCA AGAACAGGCC ATGGTGAATC
51151 TCAGGGCCAC TGAGTGCCTG GGCTGGCAGG GGCAGAGTTC CTCAGGGCTC
51201 AGTGACATTT GGACTGAGCA TGGGCTTTGG AGTCATACAG CTACACTGAG
51251 CTCCCAGCTT CACCGTGATC AGCCCTGTGT CTGGGACAGG GGCCTCACTG
51301 TTCTGGAAct TGAGACGCCA TAGTCATAAA TTTAACACAC ACTTCTAACT
51351 GCTTTTTCTT TTTTATCTGT CTTTCTCTAT AATCACCATG TACTACTGGT
51401 CTCTTGTGTT TATTTAAATT AATAAACATG TTACACAGTG TGTATTATTC
51451 TTCTCATGA GTTCTTTACT ATATTCTATG ATTCCACCCA TATGAGGTAC
51501 TTATGTAATT TCATTCATAG AACTCAAAG TAGAAAAGCA GTTAGTTCTT
51551 AGAGGACAAA AGGAAGGTAA AGGGGGATTG TTGTTTAAAC GGAACAGAGT
51601 TTGAGTTTTG CAAATGAAT AAAATTCCCT GTGAATGTGG ATGATGGTTG
51651 CAGAACAATG TGTGATTAAT TCCTCTGACC TGCACCTTTTA AAAATTGTTA
51701 AAATGGTTAA TTTTATGTAT ATTTTACCAC AATGTTAAAA AGGACTTTTT
51751 AAAATGAACG GACTATAGAT ATCTGCAACA GCATAAATAA ATATCACAAA
51801 TATAATCTTA CATTTAAAAA TTGATGTAAA AGTATCCATA CTCTGTAATT
51851 TCTTGTATTT AAATCCAAA ATCAAACTG AGGTCTGGC TTCCACTAAT
51901 TAGCAAGTAG CTAGTTTAAC TAACAATCTC ACAGAGAAAA ATGATGAATC
51951 CCAGGTAAAA CATTATATGT TATTATAGAA ACACTTCTAT ATATAATAGA
52001 TATATGAAAT ATGTGTGTAT AAAAAGTAA TGCATATTTT AGCTGTGCCC
52051 TCCATAGAAG AGAGAAGTAT TGAAGTTAGA AGCCAGCCCA ATTAACACCC
52101 TCTTTAAAGA CAACACTCTT CAAACGGACA AAACAGAATC CAGAGTCTCT
52151 TTAACCTCTT TATACAGTCT CTAGTGCACA ATTTTCCAAT TCAGGAGATG
52201 CGTGAAGACA CATGAAAATA TAATACATAC ACAAGATAAA AAGCAGGCAG
52251 TAGACATCTC CAAGATTGCC AAGACATAAT CAGCAGACAA GAATTTGAAG
52301 GCAGCTATTA TAAGCATGCT CATGGGGGCA AAGGAAAATA TTCTCATAAA
52351 TGAACAGATG TGGAACATCA GCAGAGAAAT GAAAAATGAC CACATAGAAA
52401 AATAATAAAA ATAATTGTGA GCTTTTCTAT ATATCAGAAA CAGAAGACAT
52451 AGCAATATAA TTTAACCAAT CTGAGGATAG AAGTAAAAAT AGTTTAAAAG
52501 AAAATGAACA GAGCCTTAGA CCTATCTGTG GGATGATTGA TTCTGAGAAG
52551 AAGAGAGAGA CAGAAAAAAT TAAATGGGGT AGAAAAGCAA ATCAACAAAA
52601 TTTAAAGAAA ATAAACCGAG GCTTAGAGAC CCATGGAATC ATTCAGTCTG
52651 AGAAGGAGAG GAGAGAGTCA GAAGAATTAA AAGGGTTACA AAAATAAATC
52701 AACAACATA ATCTGAAAAC TTTCAAAAAT TGTTCAAAA CTAATTCTT
52751 TTTTAATCTA AAGATCCACA AACCCTCCAC AAAAATACAA ATAAAACCAT
52801 ACCAAGGCCA TATTGTGATT TAAGAACTA GCAGACAGGA CTTTCAATTG
52851 ACTTGATATG ATTTATTATT TTTACTACTT ATAAGAATGG AAATAAGTTC
52901 TCCTTAGTTT TTTTCTTGA GAAAGTCTGA CATGTGAGGC ACAGATGAGT
52951 TATTAAAGGC AGATGACTTT CCAGCCTTGT CTTAAATGTT CCATTCTTTA
53001 CCTTAGAAAT TATTTAAATT TGTGTCTTCC AAATACTGTA GTAATATTGA
53051 TGCTCCAAAG AGATGTCCCA CGGAGATTCT GCTCTGTGT GTCCACCCTG
53101 CAGGGAGCTG AGGCAGTTTC TTATGACAGT TTCAGAAGCG AGTAGTCGTG
53151 CAGTACTTAA TCTAAAAAAC TTAATGGAAA CATGAATTAA GAGAATGATC
53201 ACTGTTTAGT TCTATCAGCA AACTATTAAA AGTGATCCAA AGGAGGTATT
53251 TATAAAGAGA TATTAAAAAGA TTTTCAAGG GAGCCTTATT CAGGGCAGAA
53301 ACGCAGACAC TATCGCTGAC CTCACCACAG AAAATACCCT CATGGGTTGG
53351 GAGGGACCAA GGGACGCTCT GGTCTGCTG ACCTGCATTA ATCAGAGCCA
53401 GGAGGTCCAC ACTAGTACCA TGAGGCCTGG GAAGCAGCCT GCGTGGGGTC
53451 AGAGAAGTGG TGGATGTGGC TCCCAAAGTG GCTTACGGGG TCCCTTCCCT
53501 GTGGCTGTTT CCTTACTGGA TGCAGCAGGG TCAGGCCCTT CCCCTGTGAC

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53551 GTTTTCTCCT CTTTATCACA GTGGCGGGAG CGTCCCCGTG AGAGGCCCGA
53601 CCCAGGTGTG GGCCACGCTG CGAGCCCGAG GACCAAGCGG CACTCCTGGG
53651 ATGCAGAGGA GGATTTGTGA CAGCTTAGGG AACAGAAAAA ATGGTTTCGA
53701 AAAGGCTAAT GGCAGGTGAC TAAGGACACG ATGTTTTTCAT TACTGGCAGT
53751 GAACTGACGG TTTCATACAC TAACAAGGGG GCTTCTCGAG GGGATCCCAA
53801 GGAGCCCAAG AACTGCCAGG TCGCCCACCA TTACCCTACG CCTAAGGGAC
53851 AGGCTGCACT GAGCATGTCT GAAACGGTAG GCCCGTTAGC CCCACCCCTA
53901 GGAACGGGTG CACTCCGCAT GTGTAAAAGG GCAGGACCTT TACCCACCCG
53951 CTAGGGACGG GCTGCACTAC GCATGTCTGA AAGGGCGTGA CAAGAGGGAG
54001 GTGCAAGAAG GGGCGGGGTG GAGGGGGAGG GGGGCAAGAA AAGGGGCGGG
54051 GTGCGCCCAA CATCCGGCGG AGAAGTATTA CCATGGCAAC CCTCCGCGC
54101 AGGCCATAAG AGGCAAATGA ACCTTTGTG GTTGGCGGGA AATCGAGACC
54151 CTGGCAAGGG GGCTTCTCCC TTGGAGAAGC CTGAGAACTG CCAGGTCCGC
54201 GGCCGTTAAC CCGCTCTAG GGACGGCCGC ACTGCGCATG TCTGAAAGGG
54251 AACTAGAAAG GGAGGAGCGA GAGAGGGTGG GGCTGAGGAG GAGGCTGTGT
54301 GAGAAAAGGG GCGGGGCGCG CCCAAAGTCT GCGGGAAGAG CGTTACCCTG
54351 GCAACCCTCC CGCGGAGGCC GAGAGAGGCC ACCGGCCCTT TGTTGATCTG
54401 CGAGAAATCA AACTACGAAC ACGACAAGCA TTAGCTGCA GCTCGAGGAG
54451 ACAAGGTGTC ACAATTACAA GGGGAAACTA GCCGCCCTAG CTCCACTGTC
54501 TCCCAGCAC GAGAGATTTG AGAACAGAAA GGCTTCCCTC CGCAGGGCGA
54551 AACTGCTGGG CTGCTGGAA GGGCGAGGCA GGGAGCGGAA CCGTCTTCAG
54601 GAAATTTCCG GAGTTCCGGG GTCAGGTCCA CTCCCCGGCT GTTGTGTGT
54651 GTTTGGCAGG GCAGAGGGTG TAGGATGCCA GCCTGCTCCG GGCTGCGCTG
54701 TGGCCTCTATC CCAGGGCGGG GGGATGCGGG GCGACACCCG CCTCCGCTG
54751 CATCCAGGAG TTGTAGTCTC TTCACCGGTT CCCCCTGTG GGTGGTGGGG
54801 CTGCAGGAGG ACAATTCAAA TTGAGATAGG AGCGGAGGCG GAGCGCGGCC
54851 GTGCAGGGAG GGGCAGGGCG GTGTAGGCGG CTCATTTAC CAAGCTTTGC
54901 TGGCCATTGT TTCCATGCCA AACCTTGCC AAGGGGATTG TCAGGAGAGG
54951 AACTGAAGG GGAGGCGTGG GCTGGCCAGT GAGGAGGGTG TGTTTTTGCG
55001 AAGTGCGCCC CGTCTTTGCC GAAATTAGGA GTGTCTGGTC CTCCTCACG
55051 CGGCTCTCTG CTGCTCAGGT CGATTTTCTC TCCCACCTC ACCCAGGCTC
55101 TTTCCACAGC ATCACCCCTG CCCCAGCCCC TGGAGCCACC TGCTTTCCTA
55151 AGTGGTTTTG GAACTGGGC TGAGGTCCCA AAGGGTGTCC ACTGTGCTGT
55201 TGCTCTCCGC TCTGTCCAAG CAAAGCACAA GCTCAGCCGA CTTTGAAAGA
55251 CACCCACCGC CTGCGCTGGG AATGCACAAG TTCAGAGCTT TGCAAGAAGT
55301 GATCATGGGG TATGGCTTTG TGAATATGTC ACCCTACCA GTGCCTTTTT
55351 CGCGGACGTG GACGTGGAGG AATGAGGGAG GGTAACTACT GGGCTACCAA
55401 GGTACTGCTA AGAGCAGAAG AGAAAATCCC AGTTTTAGC CATGTGTCTG
55451 GTTTGACATT TCACCAACCC ATTTAAGTGT GCAGGCCCCC AAATATCTAC
55501 CTAAAGATTA TGATAGTTTA GGCATTTTAC ACTTGAAAT ATTGACCTCA
55551 TATCCACTGA AGCCTGACTG GCCAGTGTCT CAAAGACACA GATGATGACC
55601 TGATCCCTCA GGAACAGCTG GTGCTCCAGC TTTGTGGAGG TGAATTTCAA
55651 GGTATGGATT ACTTGGGGGG TCGTTGAAAC CTGTGAGGCT CAGGAACAGA
55701 TGGTGCTCCA GCTTGTGGA GATGAATTTT AAGGTATGGA GCATTTGGGG
55751 GGTCTTTGAA ACCTGTGAGG TTTTCATATCT CTGCTTTGTG TGAAGAGATC
55801 ATCACCTACA GTAGTCAGGG ATGTGCCTTT ACTTACTGGT GCTCATCTGT
55851 TGAAACTTTA TATCTAGACA ATGGAACAT TGAGGAGCAT TTCTGCTTTC
55901 ATGTAGCCTC TTAATAATTG ACGCCCTAAA GCCCTGTGTC CTCAGGGAGA
55951 GTTCCTTTGA TTCCTGGGTG GTACCAGGTT TCATGCTGTT AAATCTGTAA
56001 AAACCTGCGC GTTAATCTCC ATGAATATAA GACCTTGTTT TTTCTTAAAT
56051 GCCCAATTTT TTTCTTCTCT TGTCTTATAT TCTGAGCAGG ATTTCAAATA
56101 CTGTATGTAA GGAAGTAGTG AGAGTGGGCA TCTTTATCTT AAAATAAATC
56151 TTAGAAAAGA TTTCAACATT TCACCACTGA CAATGTTAGC TATGGGCTTG
56201 TCCTATAGCT AATAAAGAAC GCATCTCTTT ATTTTGAGGT ATATTCTTTC
56251 TATACCTAAT TTGCTATAAA TTTTGTTAGG AATGGATTTT AAATTTTGTC
56301 AAAATAATTT TAGGCATGCA TAAAAAGTCA TGATTTTAA TCTTTTGTG
56351 TTGTAATAAT GGTGTATAGC ATTTATTGAT TTCCACATAT TAAAAATTA
56401 TTGCATCCCA GGAATAAATC CAACTTGATC ATAACATCCA ACTGTGTTGC
56451 CCAGGCTAGT CTCAAACCTC TGGATTCAAG AGCCCTCTC CTCTCAGCCT
56501 ACGAAAGTGC TGGGATTAAT GGTGAGATCC ACTATGCCTG GCCATATATA
56551 TATATAATTT GTAAATAAAA ATAACCTTAT ATACAAGGAT AAATTCAAAT
56601 GTCCACGGTG AGGTCTGGGC TTCAGCATAA GGAGGAAGTC TTGCCTGAAA
56651 AGGGCTGCAG CTTGGAACCT TTTACCCTGT CGTCATGTGG CTATGAGTTG

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56701 GTTCACATCT TCTGTCATTC AGGACCCGAA GGGGTGGGAC CTGGGGCCCT
56751 ATTATCACTG GTGCTGGGGT AAAAAGTGTG TTAAGTATG CATTTTAATG
56801 CTTAGCAATG TTAATTTTTA GTGAGAAACA AGATTACTTA ATTTAATATA
56851 ACCGATTTTT AAGTTACTAA AAAAAAACC TAAATTTATG ACACAGGTAT
56901 TTCTCTAAT GTTTTTTTGG GGGGTTTCAA GTACCTATGT CATATACTGA
56951 AACCTACTGT TCTGTAAGCC CTACCCTTAA AACAACTCTG TTGTTATTGT
57001 GAACAGTTAC TTAGTGTAAG TCCTACCCTT AGGCAAATTT ATATGGTGAT
57051 TTCAATTGTG CTTCACATTC CTTTCCTGTG TTAAGTGTCT GGGTTTAGGG
57101 GTTAACAGTG GGAGGATCCA CTCATCTTCA GCCATCTGAG ACATAGCTTC
57151 TATTCATAAG TCCATCTTAA ATGTTCCCTT CTGAGAACT TGATTTGTCA
57201 GCCTCATTCT TCAACCTTTC AACTCCCTTG GCTTTTAAAG GCAGGTTTAC
57251 ATATACCTAC TCACAACAAA ACACCCTCAT ATATATGGGC TGTCAATTTT
57301 TATAACATTT TTATGTGGTT CAAGACTGTA ATGTGTAGCA CATGTAGTTT
57351 TGATATGGA TAGTATATTT TATATAGTAT ATTTTATATA GCTACTTTAT
57401 ATTACACATC ACTAAAATAC ATGTTTCAAGT AGTGCTCACT TAACGTCATT
57451 GATAGGTCCT TATAAACTGA CTTTAAAGTAA AACAAAATAC TGTGTGCCAT
57501 GGAAAATTAA CTTGTGTATA TCAATTAGCC AATGGGAAA TGGGGTTTAT
57551 TATATAGTAT ATTGTGTTAC TTAAGTACAC AGTTTCCCAG AATCTATCAA
57601 AAAAGTGAGA ACATACTGTC ATTAGTATTA TGTAAGTACAT TACAGAATTA
57651 CACTGTTATG GTATGTTATT GTAGTCTTAG CAGTTGGTAG TATAATGTGT
57701 TTCAGTTTCC CCAAGGTCA CAGAATTATC CAGGCCAACC AATAACACCT
57751 CCTGTGGGAA CCAGGAGCAT CTCACCCTCT TGATACTACA AAGCCTTCCC
57801 CGACACCTCC TGTGTTCTCT CTCTGCTCCC AGGTGCAATG GCTGTGTGGG
57851 TCTGTATACC TTATCATGCT TCTCTCTTCC ATGATTATAT GTAATGAATA
57901 ACTGCTGTCA ATCTCATCTG TCCAGTGATT GGTGCCATGG TTTTAACTAT
57951 TCCAGTAGCA TTAGGGTGGT AATTTCTCCC TCACCAATGG GGTAAAGGGG
58001 AGGCTAATCA AACAATTCAC AACACTAAGT GGATTAATCA CCCATGACGG
58051 AGGACATCTG CTCAACTTTA ACTGCTTTTG GCCTACTGGT TTCATGATAC
58101 ATTAAAAGTC ATCTCTGTCA GAGCCATCAG TTTGTGGTGG GCTTTTGCTT
58151 TGGTCTAAAT AACAAATTTG GGCCTTTATC ATGATTGACC TTCCTGCCC
58201 AACTATAAGC ACACATTACC TAGACATAAA TATTCAATGG ACTCTTCTCC
58251 CGCGTGACGT GTCATCATGT TTAGCCTGTG TTTGGCAGGC AGTTTGCAAG
58301 AACTTGCGT GTCAAGGCAG TGAAAACACA GCACNNNNNN NNNNNNNNNN
58351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
58401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNGGCAGG GAAAACACAG
58451 CACCTTAATC AGTCAGCACT TCAGGCGGGA TTACCACAAG AACGGCCATA
58501 TACCTGTGGT CGCTTCACT GGTCTGCTTA CTATTACTAA ATGCTTGGGT
58551 AGTCATCTGA ACGTTGTTTA TTATTGCACA CTCTCAGGAC AGACCCAGGG
58601 ATGGTCTTCT GTAAAATTGC AAAAACAATA GGGACTTTTA CTTTGGAGAG
58651 AATTATGCTT GTCATTCAGT TGCTCTAAGA AGTGCTACTG TCATGCAAGC
58701 AAGAACAGTG GCCTTGCTT TTCTGAGCTG CTGCTTCTT TGCTGCTGTC
58751 ACGTGCAATC TCATGATGAG GTGTGCATTC CTTGTGCCTT ATGGCTTAGG
58801 CACTGATGAG TCATAAAAG GAGAAAGAGA ATTTAATATT AGTCCCTCCC
58851 AAAACATTTG GGGTAATTTCT CTCACTGTAA AACCCCTACT CATCATGTGA
58901 ACTTTTAGCA CTGCTGCTTA CCAGTATGCC AATGGTGCAA TCTTAGGATC
58951 AGAAGTTTGA TGGACTCAA AAAAAAATA AGTACCATAA CGAATATGGG
59001 TGCTAATCCC AGTGAGATGG AGAGGCAGTA AACACCTTCT TCCAAAGAGA
59051 AGACAGATTG CAAATAAACA AATAATGATA TAACTCAAGA AACTAGAAGA
59101 GGGAGAAGTT ATCCCAAAGT TAGCAGATGA TGAAATTAAT TAAAAAACA
59151 GAGCAGAAAT AAATACAATG AACACTAGAA AAAAAAACA GAAATGTAG
59201 AAAAAATGTA AGAACTTGTT TTTTTTTGA AAACATAAAA TCTTCTATC
59251 TTTAGCTAGG CTAAGAAATA AATGCTCAA TAAATAAAT TAGAATTAAT
59301 TGGAAGATAT TACAAGTGG AAAACAGACA TACAAAAGGT CATAAGATTG
59351 CTGTGTACAT AGACTCCTAT TTACAATGAT ATCCAAACAA ATTGTGTAAG
59401 GGAGAAGACA TGAATAAATT TCTAGACATG TACCACCTAC CAAGACTGAG
59451 CCATAAAGAA ATAGAAAACA TGAATAGATC AGTAATGAGT AAAGAGTTTA
59501 GATCTGATGA CTTTACTCCT GAATTTTACC AAACATTTAA AAAGAACCAA
59551 ATCTTTGAAA AAAAAATTGA GAAACAGGAA TACTTCCAAA CTCATTTTAC
59601 GAAGCCAGCA TTACCCTGAT AAAAAACCA GAGATAGACA TTACAAAAA
59651 AAAAAATTACA CGCCAATATC CCTGATGAAC ATAGATGCAA AATCATCCAC
59701 AACATAGTTG CAAATGAAAT TCAAAAGCAC TTTAAAAGGA TAATTTATTT
59751 GATGTGGGTG CCCCCATCC CACCTTTTCT TAAAAAATGA AAAAAAATA
59801 GCATGGCATG GTCATACATG TCTGTGGTCC TACCTACTTG GGAGGCAGAG

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59851 GTGGGAGGGA CACTTGATCC TGGGAGGTAG AGGTTGCTGT GAGCTGAGAT
59901 CAGGCCACTG CACTGCAGCC TGGGTGACAG AACAGATCC TCTCTCTCTT
59951 TCCCCACTT TGTGTGTGTG TGTGTCACAC ACAAGGGGA GGGGTGAGGG
60001 TGTGGATGTG TGTGTATTAT TCAAAATGAA AACATGACA ATTATTTTTG
60051 TGTACATTTA TATTTTTTGG AGAAAGAGTA TCACTCTGTC ACCCAGGCTC
60101 AAGTACAGTG GTGTGATCTT GGCTCACGGC AACCTGTGCC CCCTAGGTTT
60151 AAGCGATTCT TCTGCCTCAG CCTCCCAAGT AGCTGGGATA CAGGTGCCCA
60201 CCATCTTGCC AAGCTAATTT TTGTATTTTT AGTACAGACA TTGTTTCGCC
60251 ATGTTGGCCA GGCTGGTTTT AAACCTCTGA GCTCAAGTGA TCACCCACTT
60301 CAGCCTCCCA AAGTGCTGGG ATAACAGGCG TGAGCCACCG TGCCTGACCA
60351 ATGACAATTA TTTTAAATTT TAGATTTTTA CAATCTTTCT CTCCTCTTGA
60401 ATTTGAGGCA GCCTGAGCTT TGAAGAACTGG CAATCTTCTA TTGCAGCAAT
60451 GTGCAGTAGA AATAAAATGT GAGCCACGTG TGTCAAAGTT TTCTAGTAGC
60501 AGCATAAAGA AAAAGAAATA TGAGTGAAAT TGATTTTAAT AACTTAGCCT
60551 AATATATCCA AAATATTTTA ACATATAATT AGAATGAAAT CATTACATAT
60601 ATATAGATAG ATATAGATAT AGATATATAT GTAACATAAT CTCTAAAATA
60651 CTTTCTGATA TTTTCCCTA GCATATCTCA GTACATACTG TGTACAATTT
60701 GGTGTGCTCAG TAGCCTGTTG TGGCCAGTGG CTGCCACATT GCATGTGCAT
60751 CTCTGAGGGC TCTTGACTTT TCTGACCTTC GGGAGGTAAA GGGCCTGAAT
60801 TTTCTTTTTT TGCCAGATAG GAGTGAATGC CTCTTCTCTG CCAATATCAC
60851 TCCTGTTTTCA AGGGTAAGAG AGGTGGTGCA CTGAGAGACA GGAGGGACCT
60901 ACAGGAAACA AGTGTCCACA GATAGACCAC TGCTGTCCGC TGCTGCTTGG
60951 TGTGGACTCA TCACTCTTCC AGAAATCAGA CAGAAGTCCA AAAAATGGGG
61001 ACCCAGAAGG GGGAAACCTC ATGTTTTTAG ATCTGTCCAT AGCCTTAATC
61051 TCCAGAATTT AGATGTCAAG AGACTAGATT AAAGGCAAAC CTTTTATCTT
61101 GCAATTTGGC TTTGGCAAAT TAAAATAGAA ATAGAAATGT GTCATAATA
61151 AAATCAATTA TATACAAAGG AAGGCAATAA GAGCAGAAAA GAGGAGAAAA
61201 TACCTACGAG AAACAAATAG AACTATTAAC AAAAAGGAAA TATTCCATTC
61251 TTTTCAGAAT TAAAATGAAT ATATACATGG AGTGAAATAT ACACTGGAAA
61301 TATGTAAATT GGCTAAAGAG ATTTTAAAAA AACAAAGATT ATTTTCTGTT
61351 GTCTATAAGA AACTCAATTT ACATCTAAGC ACACAGATAG GCTAAAAGTG
61401 CCAGTATGAA AAATACCTTC TAGGAAACT GCAATCAAAT GACAGCAACG
61451 TGGATCATAA TTATGCAAAA TACACATTAA GTCAGAACTG AAACAACAGA
61501 CAAAGAAAGA TGTGTATATA TGATAAACT GTCAATTCAC TGGGGAAGCT
61551 GTGTTAATAA TAAATATGTG CACACTTCAC ATCAGGGTTC CCAAATGTAT
61601 AAAGTTAACA TTGACACAAA TGAAGAAGGA AATGGCTATG CAAAATAGT
61651 AAGAGACATA ATTACCCAC TACCCACTAT CAGTAATGAA TAATAAGCC
61701 AGACAGAAAG TTAACCTGAG AACAGAGAAT TTGAATAACA CTGCAAACTC
61751 TAAACCTAAC AGACATATAG AAAACACTAG TCACAGTGAA TAGAAGTGAA
61801 AAAACAAAAG AAACAAACAC TCCACACAGC AATATCAGAA TATACAATTT
61851 TTTCATAGG TCATGAAACA TTCTCCTGGG TTGATGACCT ACTAGGACAC
61901 AAAACAAGTT TTGCTAAATT TAAAAATGGT AAAATATGGG CCAGGGATGG
61951 TGGCTCATGT CTATCATTCC AGCATGTTGG GAGGCTGAAT TGGGAGGATT
62001 GAGTGAGTTT AGGAGTTTCA GGCCAGCCTG GGCAACATAA GGAGACCTTG
62051 TCTTTACAAA ATATAAAATT AAAAAATTAA CTGGGCATGA TTACACGTGC
62101 CTGTGTGTCC AGCCACTCAG CAGGCTGAGG TGGGAGGATT GCTTGAGCCT
62151 GGGAGATCAA GGCTGTGGTT AGCCATAATT GAGTCACTGT GCTTCAGCCT
62201 GAGTAACATA GCAAATCTCT GTCCCAAAG AGATTAAAAT ATTACAACT
62251 ATCATTTTTG ATTAAAAGGG AATACAATGA GAAATCAATA GCAGAAAAAA
62301 TACTGGAAAA TCTACAAATA TGTGGAAATT AAACAACCCA CTCTCAGCA
62351 TGCTCTCGTT AAGGGTCGGA AGACAATATT GTGAAGATGT TCACACTACC
62401 CAAAATTATC TACAGATTCA ATGTGATCGC TGTCAAATTT TAACTGTCAT
62451 TTCATTTGCA GAAATACAAA AAAAATTCTA AAGCTTATAT GGAATCTAAA
62501 GTGAGTATCA AGAGCCAAAC AACTTTCTAA AAGCATAATA TTGGAGCTAT
62551 GACACTCCTT GACTTCCTAA TGTATTACAA AACTACAGTA ACCAACTAT
62601 TTGGTACTGA CATAAAGGCA GACAGACAGA CCAATGGAAC AGAATAGATC
62651 ACAGGAATAA ACTGTCATAT ATATGGCCAA ATGAGGAGTT ATTTTATAT
62701 GCATATTCTA TGCAGATTA TTCACAACAG CTGATAGGTG GAAGGAACCC
62751 AAATGTCCCT CAGTGAATGA GTGGATAAAG GCAATTTGGA ATATACAAAT
62801 AATGGAATAT TATTCAGTTT TTTAAAAGCA GGAGATCTGA TTATTTTAC
62851 ACTAAGAATA AATCTTGAGG ACATTATGTA AATGAAATAA ACCAGTCACA
62901 AAAGGACAGA CACTGTTTGA CTCCAGTTAA ATAAAATATC TAATGTAGTT
62951 AAACCTTAGT AAACAGAAAG TAGAATAGTA TCAGTCAGAG CCTTAGGGGT

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63001	GGAAATAAAA	GGGTAGTTGT	TGTTTCATAG	GTATTGAATT	TTAGTTTTAC
63051	AACATAAAAT	CATTTTAGCG	ATATGTTGCA	TAGCAATGTG	AATATATTTA
63101	ATATTATTTA	ACTATGTACT	TAATATATTT	AAGATGGTAC	ATTTTATGTG
63151	TTTTGAGTAC	ATTAAAAATG	AAAAACTTTC	TAAAGAGATA	CATATTTATA
63201	ACCTTTTTCA	AAAATTACCT	CCAAATCATA	AAAATGTCAG	AAAAACAATA
63251	AAGAGGCCAG	GTGCAGTGGC	TCATCCATGT	AATTGAAATA	CAACAGGAGG
63301	CTGAGGATGG	AGAATAGCTT	GAGGCCAAAA	GTGGGAGACC	AGCCTGGGCA
63351	ACATAATAAG	ACCTCATCTA	CAAAACACAA	GCAAAAGGAA	ACTGGCAAAT
63401	TAAAAAATAT	GTGAGACTTA	AAACAGCAGA	CTCTTGACGG	CTCAAAAAAT
63451	TTAATATTAT	TAAGATGTCA	ATACTACTCA	CAGTGAAACA	CAAATTCAAA
63501	GTATTTTCTA	TCAAAAATCC	AATGTTACGA	TTTTTTTAGA	AATATTATTT
63551	TAAGTCCTAA	AATTCCTACG	GAATATCAAG	GGACAATGAG	TAGCCAAAGA
63601	AGCTTTAGAG	AACGAAGTTA	GAGGTGTCAC	ACTTCCTGAT	TTCCAAACAG
63651	ATTACAAAGC	TATAGAAATA	CAACCAGAAA	GACAAATAGA	TGATGGAACA
63701	GAATAGAGAA	CCCAGATATA	GACCATCATG	AATATCATCA	GATAATCTTC
63751	AAACAAGTTG	CCATTACCAA	ACAACAGGGA	AATAACAGAC	CCTTTAACAA
63801	ATAGTGTCT	AAAAGTGAAC	ATCAAAATGG	AAGAAATGA	AATTGGACTT
63851	CTGACTTGAA	CCATATACAA	AAATATCTTA	AATAAATTAA	ACAAATGTAA
63901	GTAAGATAGC	TATAAACTC	TTAAATATG	AGGTAAAAAT	CATGACATTT
63951	GTCTTGGTAA	TTTTTTAAAA	TATGACATTA	AAAGCAGAAG	TAACAAGAAA
64001	AAAAGCAGAA	AAATGGGACT	ACCTCAAATG	TAGTAAGCTT	TCTGGACATA
64051	AAGGAAACAT	TTAATGTCAC	GTAAGAAATG	AGAAAAAAAT	TACAAATGAT
64101	ATATTTGATA	GAAGTTAATA	ACCAGAATGT	ATAAACAACT	TTAAACTCA
64151	ACAAAAAATA	CTGAACAACC	CTATTTAAAA	ATGGGCAAAA	CTCTCAACAG
64201	ATGTTTCTAC	AAAAGAGATA	TACAAATGGC	CAAGAGGAAT	TTGAAAGGAT
64251	GGTCAAATTC	ACGAATCTTT	AGAGAAATGA	AAAGCAAAAT	CCCAATGAGA
64301	TATTACTTCA	CACCTATTAG	GATGGCCACT	ATCAAACGAG	AGAAAAATAAT
64351	AAATATTTTC	AAGGATGTAG	ATAAATTGAT	ATACTTGTGC	ACTGAGTGGT
64401	GGAAAAATAA	TAATGCAGCC	ATTATGAAAA	ATAGTACAGA	GGTTCCTCAG
64451	ATATTTAAAA	TGGAATTATT	GTACTATCTT	GTGGAGGTC	AAAAGAATGA
64501	GTGTTGTGAC	CAACTATTAT	TACCACTGGA	GGCTATATGA	GCAAACAGCA
64551	AACTGTTCTC	ATGAATGCAG	GATGTTGGCA	AGCTGACAAC	TGCATCTGCA
64601	ACCAGAAGGA	ATGCTGAGGG	CAGTCATGCC	CCAGGCACAG	TGTTTCTTGT
64651	GGTTATCTAT	AGGAACATCT	GGAGCCTGTT	GTACAAAGAA	ACCAATTATG
64701	TGAGCCTGTG	ATAAATCAGG	CAGCTGACTA	ACCATTACCT	GCTTCCTGCC
64751	CTGTTGATT	TACCTAATGA	ATACAAAGGG	CTGTATAAGC	TCAGGGCCCT
64801	TGTTCCCTAT	AAGCAAGGAG	CCCCCTGACC	CCTTCTTTAA	AACAGATCTT
64851	TTTGCTTTTG	TCTTCATTTT	TGCGTTTGTC	CTTCTTCTTC	AGTCCTGAAC
64901	TGACAGCCAC	AAGTGGCACC	TGAACAGGGA	CTTGAACAAA	GAAGGTCTGC
64951	TGGAGCAGAA	AAAGTGAAAC	TGACCAGATG	AATGAGAAAC	CCTGGGATGA
65001	GTCTGCCTGC	AGAGGATATA	AGGTCAGTGT	CCTAAAGAGG	TACTGGGAGT
65051	GGGAAGTTTC	TGAATCAGGG	TAACGTGGGG	GCAGAGTTTG	TCTGTTGAGG
65101	AGCAGCATTA	CGTGCAGTTG	CTTAAAGTTT	TACGTAAACA	ATCTGGTGCT
65151	CAGGTTAGTT	CTCAAACGCT	GACTAAGCTG	CTGCAGGAGG	TTATCATGCA
65201	TAACCCCTCG	TTTCCGCAGA	CAGGCGCTCT	TGATGTGGAA	AATTGGAAC
65251	GAGTAGGGGA	AGGATTAAAA	TGGGCTCATC	AAAAAGGTCT	TAAAGTTTAT
65301	CCTTCCTTTT	TTTCTGTTTT	GGAGTTTAGT	CCATACTGTC	CTCCTGCCAT
65351	TATCTCATTC	TTATTCTGCC	AAACCGCAGG	AGCCATGTTT	TGAATCTCAA
65401	ATTTTGAAAG	AATCTTTTGT	CCCACCCACA	ACACCCAAAG	AAAATAATAA
65451	ACAGGAGAGG	GAGGATGAAA	ATTGGCGTCT	ACCACCCCTT	CCAGTAGCAG
65501	AAACACCTGT	ACCATCTCCT	TCAGTAACAG	AAATAGAGAC	CCCACTGCAA
65551	AGAATTCCGC	GGACTGCTAC	CATAGCTGGA	GAGCCCTTAG	GACATTGCAC
65601	TTTCACTATT	TCTGTAAGGC	CTGATCCAAA	TAATCCACAG	CAGTTTATTT
65651	ATGAACATGC	CTCACTAGAG	TTTAAGTTGT	TGAAGGAATT	AAAAGCTAGT
65701	GTAGTGAATA	ATGGAGTACA	GAGCCCATTT	ACTTTAGGAT	TGTTAGAATC
65751	TGTATTTTGA	ACTATGTGTC	TTCCATCCTT	TGATGTAAAG	CATTTGGCTC
65801	ACACTTGTTT	GTCTGTAGT	GCATATCTGA	AATGGAATTT	AAATTGGCAA
65851	GAAGTGTGTG	CACACCAGGC	TAGCACAGAA	TTGTGCTGCC	GGGCACAGGG
65901	GACATTACAG	AGGATATGCT	GTTGGGTAAAT	GGCCCTTATT	CAGACCTGGA
65951	ATATCAAATG	AACTCCCAG	ACGCTGCTTA	TAAGCAGCGT	GCACTGGCTG
66001	CTAAATGCAC	CTGGGCCACA	ATTCCAGAGG	AAGGGGTCCC	AATACAATCC
66051	TTTTTACATG	GCATGCAAGG	GTCAAAGGAG	CACTATGCAC	ATTTTCTTGC
66101	ATGATTACAA	GAGGCAGTGA	GGCATCAGAT	TCCTCATACC	ACTGCTGCAG

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66151 AAATGCTAAC CTTAACTTTA GCTTTTGAGA ATGCAAACAC GGATTATAAA
66201 TGTGCACTGG CTCCTGTGAG ATGTACTAAA AACTTAGGAC ATTTTCTCAA
66251 AACTTGTCAA GATGTGAGAA CTGAGCTTCA TTGCTCTACA ATGTTAGCTC
66301 AAGCAATGGC TAATTTAGTA GTTAACAAAT CTA AAAAAGGG CTAAGGGTCA
66351 AACCTTAAAA TGGGAAAATC TTATAATTGT GGAAAAATCG GACATTTCAA
66401 AAAGGAATGC CATCAGACCT TGGGCAAAAG GGATCTTATA ATGCAATACC
66451 CAACCTTCAG CAGAAAAAAT TCCAGAAATT TGCCCTTGTT GCAATAAAGG
66501 AAATCATTGG ACTAATCAAT GCAGTTCAAA ATTTTCATCAG AATGGCACCC
66551 CTCTGTCGGG AACCAAGAAG GGAGCCTGGA CCCGGTCCCC TCAAACAATG
66601 AGGGCATTTT CTGTCCAGGC CACAACCCCA TTTCAGGGAG GAGTCTATGG
66651 AGGAACATTG ATTCCCTTTC CCCAGGAACA CCCAGAAGCA CAGGAAATAG
66701 ATCTCCCTGT CAGAGAATGG GTTACATTAG TTGGAGGAAA CAAACCCACT
66751 AAAATFCCCA CTGGTATTTG GAGACCTTTG CCAACAGGAT ATATGGGATT
66801 AATTTTGGGT AAAATCCATC TCAACTTACA GGACATTACT GTAGTCCCAG
66851 GAGTTGTTGA CTGTGATTAT GAAGGAGAAA TTCAAGTAGT GGTAATATCA
66901 CAAGATTTGT TAGTTTTTGA ACCTGGAGAA TATGTAATC AACTACTGCT
66951 TATTCCTTGG GAGTTGTTTC CTCTCCACA TAAGGAGAAA TGAGAGAATC
67001 AAGGATTTGG GAGTACAGCT AGGAGGAAAA TTTATTTATC ACAACCCATA
67051 GCATCTAATA GACCCACCTG TACAGTGCAA ATTAACGGAA AAAAATTTCT
67101 ATGGGCTTAT GGATATGGGA GCTGATGTGT CAGTAATATC TAAAAACAAT
67151 TGGCCCCCAT CCTGGCCCCC GCAATTAACT CCTACATCGC TAGTGGGAAT
67201 AGGAACAGCT CAAAGTGTTT AACAGAGTGC TGAAATTTTA CCCTGTCTCA
67251 AACCAGATGG ACAGTCAATG ACTTTTAAAA TTTATTTTGC AAATGTAATC
67301 GTTAACTTAT GGGGCCAAGA TTTACTTACA GCATGGGATA TAAGACTTGC
67351 AAATGAAACT ATTGACAATC CAGGGTTCAA AATGTTAAAG AAAATGGGAT
67401 GTCAGGCAGA AAAGGCTTAG AAAAGTCCCT ACAGGGAAAC ACTGATCCTA
67451 TATCAATAGC TGGGCAACA GATAGAAAAG GGCTAGGTCA TCAGAATTTT
67501 TGATGGGAGT CACTGATATT TCTCCCCCAT CACTGTTTTT ACCGCTGGAG
67551 TGGCTGACTA AAAAACCTGT ATGGGTGGAT CAGTGGCCCC TATCACAGGA
67601 GAACTAACA CAATTCCATC AGCTAGTAAA AGAGCAAATG GATGCAGGAC
67651 ATATTGAAGA GTCAGTTAGC ACCTGGAATT CATCAGTATT TGAATTCCT
67701 AAAAAGTCAG GAAAATGATG ACTGCTACAT GATTTGAGAG CTATTAATGC
67751 ACACATTTAA CCAATGGGTG CATTACAGCA AGGTCTGCCA TCCCCGGCAG
67801 CCTTTCCAGG AGCTGGCCTT CTCAAAGTAA TATATCTTAA AGATTTTTTTA
67851 TTTATTTTTT TATTTTACTG TTACATGAGC AGGATAAGCA TCGATTTGCC
67901 TTTTATGTGC TTTCTGTAA TCAAAAAGAG CCTGTCTCTC ATTATCAATG
67951 GAAAGTCTTA CCCCAAGGCA TGCTTAACAG CATTATATCA GCATGTTGTA
68001 GGATAGGCAT TAAAGGTGCC TCTGAATATG TTTCCACAG CCTACATCCG
68051 TCATTATATG GATGATATTC TTTCTGCCCC TCCTACAGAT CAAATTTTAT
68101 ATCAGTTATT CAGATAAATA AAATGAGCTT TGACTTAAAT GGAATCTCAA
68151 AATAGCTCCA GAAAAGGTGC AAACAACCTC CTGATACCAG TACTTAGGCA
68201 CTATTGTTAC TGAAAGAAGT GTTTGGCCTC AGAAAGTAGT CCTCCATAGG
68251 GACAGATTAC AAACCTTGAA TGATTTCCAA AAATTATTAG GGGACATTAA
68301 CTGGCTGTGC CCAATGCTAG GTATTCCTGC TTATCAACTC AAACACCTTT
68351 ATCAGACCCT TCAAGGAGAT TCTCCATTAG ACTCTCCTCA GCAACTTACT
68401 AAGGAGGCAA AAGCTAAGTT ACAACTTGTA GAGCTGATGT TTTGGCAACG
68451 ACATGCCTCC TGGCTACAGC CACAAAAGGC TTTGCTTCTG TTTATTCTTC
68501 CTACCCCCCA TTCAGCAACA AGACTTTTAG GCCAATTCAT AGTCAAATCT
68551 GTAGTAGTAT TAGAATGGCT TTTTTTAAAT CCAATCAGAC AGTGAAATCT
68601 TTGCAAGTTT ATCTTTCTTT AATTACTCAA CTATAACAA TAGGTAGGCA
68651 TAGATCAAAA ATGCTTATGG GATATGATCC AGACAAAATT ATTGTTCCCT
68701 TGGATTCCCA ACAACACACT GCAGCATGGG AAATGTTGAC TGCATGGCAA
68751 ATTGCTCTTG CAGATTTTCAT AGGAATAATA GATAACCATT ATCCATCAGA
68801 CAAAATTTTG CAATTTTATA AAGTTCACCC TTTTATTCTC CCTGTAATCA
68851 CTCATCACAA GCCTATTCCA GGTGAACAGA CCTATTTTAC TGATGGTTCT
68901 GCCAAAGGAC ACGCAGCTAT TTATGGACCT AACATACTTA GACAATAAAG
68951 ACCTCTGGAG CTTCACTCA ATGCTCAGAA TTAATGATAG TTATTCAGGT
69001 TTTACAGCTC ACCACTTCAT CTCCTAATAA CATTGTTTGT GATTTCAGCT
69051 ATGTTGTAAA TGTAGCCAGT CGTGCTGAAA CTGCCACTAT TAAGAGCACC
69101 CTAGAACCAG AGCTGCTTAA CTTGTTTCTA AGACTTCAAC AAGCTGTTCTG
69151 CTCTCATGCT ACTCCTTTTC ATATTTCTCA TATTCATCTC CACACGCAAC
69201 TTCTTGACC ACTATCTCTA GGTAATGATA AAGCAGATAA ACTAATCGGT
69251 TCTGTATTTT AACAAGCCCA AGCTTCTCAT GCATTACTGC ATCAAAACAC

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69301 CTCTGCCCTT ACTCGTATGT TTCATCTGCC TCATGGACAG GCTGCAGCTA
69351 TTGTGCAAAC CTGCCCCACT TGCCAGCATG TTCCTGGTGT TGCACCTGTG
69401 GAAGGATGTA ACCCAGGAGG CTTGGCACCA AATGAAATCT GGCAGATGGA
69451 TGTTACACAT ATAGCAGCCT TTGGGAAACT CAGCTGTGTT CGTGTGACTA
69501 TAGACACTCC CATATGCTAC ATGTACATG CCAAACAGGA AACAGCTGGC
69551 CATGTCCAAC AACATTGTTT GTCATCATTC GCCCATATGG GGGTCCCTAA
69601 ACAATTAAAA ACTGACAATG GACCTGCTTG TGTTAGTCAT GCTTTTCAAA
69651 ATTTTTTACA GTTGTGGGCA ATCACTCATA ACACAGGAAT TTCTTACAAT
69701 TCTCGAGGAC AAGGCATTAT AGAGTGGGCA CATCAAACAC TACAGTGTAT
69751 GTTGTAAGAA CAAAAGGGG GAATAGGAGA CAAGCTACCA CCTCAAACAA
69801 AATTACATTT ATCCTTATTT ACTTTTAATT TTTTACTTTT GATATGGATA
69851 GTAAGACTCT GGCCAAACAA CATTGGCAAA TGTTAGAGGG AAAGAGGAAA
69901 GTTTACCCAA AGGTACTATG GAAATCCCA GAAGAAGGAC AATGGAAAGG
69951 CCTGGTGGAT TTAGTGACGT GGGGATGAGG GTATGCTTGT GTTTTACAG
70001 GAGATGGATA AACCCTGTGA GTGCCCTCAA GTTGTGTGCG ACCATGGAAT
70051 GGGAGACTGG AGGGATACAT GGATCCCAAC TACAGGCCCA GCTCCTCCAG
70101 TATGAGCCAT GAGCCAGTTG AATCTGAATG TGAAGATGGA ATGAAGACCG
70151 ACGAGAGTCA CACTGACGTC AACCCCTATA ACATGGGGTC AGATCAAGAA
70201 AACCACACCA GAAGCTGAGA AACTGGTGTA GTGCCAGGGT CAGGCAAAAA
70251 CCCCTGACTC CATGTTTATG GCCATGCTAG CTGTAATATC CTGTGCAGTA
70301 TGATTTTTCT GTGCAGAAGC AAAAACATAT TGGGCATATT TTCCTAACCC
70351 ACCGGTAGTG TGATCATACT CTGAAGCAGC ACTCCTCCTG AGATATATCA
70401 TGATCAAGGA GCATCAGTAC CAGGACCTCT AACTCCCCCT GACACAGAGC
70451 AATTAGACTC TCATAACAAT GGTATCAATT ATACCACTCC ATTGGAGGGA
70501 CTTCTTTTAT GTGTCACCCA GGATACATTG CTCAACTGCA GTTGCCTTGC
70551 AGTTTGATCC CAAGCATGGT TGAGTTACCA TAAAAAATT ATGTACCTAT
70601 TAGACCTTAG CTTTATTAAT ATTACTTGTG TAGTTACTAA TCACTCCTGG
70651 CCCCATCACC CAAATTGTAC TGATTATACA GAATGGGCTC CCTTTGATAA
70701 TTCTCACCCC CCTCCTTGGG CCCACTGTCT TGGCCCCTTA GCTAGACAAT
70751 AGTCCATGTT AATGGGAGAG ATTATTGACT GGGGTCCCTG TGGTCATTAA
70801 GATGGGAGAG ATGAGAATCA GACCACATGG CATAAACTTC ACTGGCACTG
70851 GTGGCGAAAC TTTAACATCT CTCACTTCA ACACACTGGG ATTCAATCCC
70901 AATCTGCCAT GCAACTTGCT TGGCATGGAA CGGGCTTTAG CCCACCTTTG
70951 CCTCAATGGC ATTATCAAGG AAAGAGAGGT CCAATTCAGG AGTCTATGTG
71001 GAAGGCAGCA CTCCCATATA TGAATGGCAG CATTTGGGTT GGGACACTAT
71051 CCAATAATAG TAATAGTGCT CAATACAGTT TAATGTTACC TTTGTAAAAA
71101 ATGTTTGAAA TTTGTGTTTT TAATCCCTAT GTTTTCTAG CAGCAAAAAA
71151 GGACCAACTC CAGGTAACA ATGCCCAATT GAATTGTGAT TCCTGTCAAC
71201 TCTATCATTG CCTTAATCAT AGCACAATAC AAACACACAG CATATCCACC
71251 CTAATAATTC TAGGTGCGAT TCCTGGATTA TGGATTCTG TAAATCTATC
71301 TGAGCCTTGG GCAGCCACCC CCACTTTACA TTTTGTAATA CTCTTACTC
71351 AGCTTACTCA TGGCACTCGT AGAGCCTTAG GCATGATAAT TTTTACTATA
71401 GTCTCCTTAA TTACATTAAT ACCCTCTGTT GTGGTGTCTT CAGTAGCACT
71451 GGACAGCTCC ACTCAAACAG CTCAATATGC AGAAAATTGG ATGCATACAG
71501 CTGACCAGGC ATGGATGTTT CAAAATAAAA CTAACACTGA GATACAAACA
71551 GAAGTGGCAA TGTTAAAGAC TACTGTTCTG TGGCTAGAAG AACAAGTACA
71601 AAGCTTGCAG TTGCAGTAGC AATTGCGTTG TCATTTTAAC CATACTCATA
71651 TTTGTGTAAC CAATTAGGAA TATAATCAAA GTGAATATCC ATGGAACCTT
71701 GTAAAGGCCC ATTTACAGGG AGCTGTTACA TCCAATGTTA CTTTTGATAT
71751 TAATGATTTA CAAAGTAAA TTCTAACAGC ACCTCAATAT CTTTTTCATA
71801 ATTATTGGAA TAATGTTACT ATGTTTCTGT TTTTGTTC TAAGTCTGTAA
71851 AATCAACTGG AACACCAACC AGCAATTGAG AGCTGAACAG CCTGCAATTA
71901 CCTTTATTCA ATTAATCAA AAGCAGAAAG GGGGAGATGT TGGAGGCTGA
71951 AAGAATGAGG GTCATGACCA ACTCAGTATA CCACTGGAGG CTATGTGAGC
72001 AAACAGCAAA CTGTTCTCAT GAATACAGGA TATTGGCAAG CTGACAGCTG
72051 CATCTGCCAC CAGAAGGAAT GCTGAGGACA GTCATGCATC AGGCACAGTG
72101 TTCTTGTAG TTATCTATAG GAACATCTGT ACCCTGTTGT ATAAAGAAAG
72151 CAAATATTTG AGCCTGTGAT AAATCAAGCA GCTGACTAAA ACTGTTACCT
72201 CTTCTCCCT GTTGATTCTA CCTAATACAT GTGAAGGGCT GTATAAGCTC
72251 AGGGCCCTTG TTCCCTAGAA GCAAGGAGCC CCCTGACCCC TTCTTTACAA
72301 CAAATCTTTT TGTTTTTGTC TTCATTTCTG CATTCATCCT CCTTCGTTCA
72351 GTCCCGAACC GACAGCCACA TGATCTGGCA ATCCCATTTT TGGATATCTA
72401 TATAAATGTT CAAAGCAGGA CCTGAAAGAA ACATTTTACA CCCCTGTTTA

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72451	TAAGAGATTT	ATTCTAAAAA	TCCAAAAGGT	AGAAGCTACT	TGAATGTCCC
72501	TTGACAGATA	AATAAAATAA	AATAAAATAT	GATATATACA	TATAATATGA
72551	TTTAAAAAGA	AAATCTTGGG	CTGGGTGTGG	TGGCTCATGC	CTGTAATTCT
72601	AGCACTTTGG	GAGGCCGAGG	TGGGCAGATC	ACGAGGTCAG	GAGATTGAGA
72651	CCATCCTGGC	TAACACGGTG	AAACCCCATC	TCTACTAAAA	ATACAAAAAA
72701	TTAGCCAGGC	ATGGTGGCAG	GTGCCTGTGG	TCCCAGCTAC	TCAGGAGGCT
72751	GAGGCAGGAG	AATGATGTGA	ACCCAGGAGG	TGGAGCTTGC	AGTAACCGGA
72801	GATTGCACAA	CTGCACTCCA	GCCTGGGCGA	CAGAGTGAGA	CTGTCTCAAA
72851	AAAAAATAAA	TAAAATAAAT	AAATAAATAA	ATCACACACT	GCAATGACAG
72901	TAAACCTTTA	GGACATAATG	TTAAGTGAAA	TGTGCCAGGA	AACAAAGTGA
72951	CAGTGAGTGT	ATGATTCTCT	TTATGATATA	TCTTAAGTAG	TCCAACTCAC
73001	AGAAACAGAA	AGTAGAATGT	CAAAGGCTCA	GGAGAGGGTA	AAATGGTCGG
73051	TTGACGTTTA	TGGCTATTGA	GTTTTAGTTT	TGCAATGGAA	AAGCTCTAGA
73101	AGCCTGTTGC	ATAACAATGT	GGATATATGT	AACACTACTA	AATTATGCAA
73151	TTACAAAGGT	ATAGACTGGT	AAATTTTGTT	GTGCTTTATT	ACAATTAATA
73201	TATTGTAAAG	TGATACATAA	AAGAGATACA	GAGTTATAAA	CTTTTCAGAA
73251	AATTACCTTC	AAATTATAAG	CGTGTTTTTC	TCACACAAAG	ATAATATAGA
73301	TTCATCAAAA	AATACATGGG	CAAATTAAGA	CTATTTACAT	GACTACTCTC
73351	CTGAACAAGT	TAAAACAAAC	TTTTGACATC	AGCCAAGAAG	AGAAATATGC
73401	AAGATAAGAA	TAAATGGAGT	ATATTTATAG	AGGCAAACAA	ACACATGATT
73451	TTATTGGTGG	TAGATATGAC	TGATTTCATAT	TTTAATTAAA	CCCCACATCG
73501	ACTCGATGTG	TACATAGAGT	TGCAGATTTA	CATCCAAAAT	CATAATATGT
73551	AGGTAAACCC	AAATTCACAA	AACACAAATG	TCAAAGAAGC	TACCCCAAAA
73601	AAGAAGCAC	GTAAATGAAA	ATTTCAAAAC	AAGAATGAGA	GAAACATTAA
73651	CAACAACAAC	AACAACAAAA	ACACTTCTAT	ATAAAACATA	GATGTACAAT
73701	TAAGAAAGAA	TCCGCTTAGA	TAATTACAAT	TTCCCGCTGT	GACCTTGCAC
73751	TGGTGGTGAG	CACAGATTTT	GAATCATGAC	TATGTTAGGG	AGACGCCCAA
73801	GGAGACAGAC	AGTGCCACCT	CCAGAGAAGC	CATTGCTTCT	CCTCCTGCCG
73851	CTGCTGCTGC	TGCCCCACCT	GTCCGCTGCG	CCTGCAGCCC	CCACTGAGCG
73901	TCCGACTCTG	TCCTGGAGTA	GGGAGGTCTT	GTCTCTTCTG	GAGCGACAGA
73951	CACCCCTTCT	CCTGGCCTTC	TCGCTTACTA	GCCCGGCAGG	TGCTGGACAG
74001	GAGATCTGAG	CTGGTCCTGC	GTCTCTGAGG	AGCTAGGAGC	CCGGCTGGGA
74051	GAACAAGGAG	ACGAAGTGTG	GGGAGAAGGG	GCGACAGGAA	CGCCAGGCTC
74101	ATGGGACCGC	TGGCAGCGGC	CTGGGTATGG	CTGGCGGCTG	AATGGTCAGA
74151	GATACGAGAG	GTGGCCACTG	TCCCCACCTT	TGGCCCCCTA	GCCGGCATTC
74201	GTACATTCTG	TGCTCAACAA	ACGGAAGCGG	CAGCTGGAGC	TGCTGCTCCG
74251	GGAGGTGGAG	TGGCCTGGCA	GAGGGCACAT	GGCTGCCACC	TGCTGCAAGG
74301	TGAGCTGGTC	TGCAGCCTGG	GCCCACAAAA	GGCCGCTCTT	GTGCAGGACA
74351	CACCGCTGCC	CTTGACCCTC	TTGCTCCCCC	GCCTGCTGTG	CAAAATGCTC
74401	AGGTCCCTGA	TCTCGGGCTT	TCCTGGCAAG	TGCACTGTGG	TGGGGAGGCA
74451	GCAGGGAGGA	GGGCTTTTCC	AGGAGCCCTG	AACAGAGGAT	CTTGGCATAA
74501	AGAGGAGAGA	GAGGTGGCTG	ACTGGTTCCA	CTTGTAAGTA	GGGGGGCAAC
74551	AAACCCCATG	GGACCCTGAT	TTTTCAGGGA	GATTTAGTTT	CACCTCTTAT
74601	CTTTTCTCCA	CCCCTTTGAG	CCTCTGAGAA	TAGAGGAGAC	GAGGCTGTTT
74651	TAAATTGGCC	TAACCATAAT	GGTCTGGACC	CTTGCCCCAG	GGCAGACCTA
74701	ATTTTGGGGC	TCTTTGCAGC	ATGGAGGCTC	ACGCCTGTCC	ACCCAGGTG
74751	TCTTCAATAT	AGGGTCTAGT	TAGGCCTGGC	TGGCAGTGAT	GCTGAGACGC
74801	AGCAGGACCT	GGCCAGATCT	TCGCCTGTTA	CAGGACATTA	TAGCCTTCAG
74851	TGCCCTGTGC	CATTATATCT	GCCTCCAGAA	GCCCCTGTGA	GCCTCAGTGT
74901	TGCCGCTGCC	CAGGCCCTGG	CTGCCTCTCT	ATTAGGGTCC	CATCTTATGC
74951	CTCCTAAATG	CACCGGGGTC	TCACTCTGCC	TTTCTCCCTT	TCCCAGAACA
75001	GGCCCCCTCA	ACTCCAACAG	AACATGCCTG	GACCATGTGC	ATCCCTCTTC
75051	AGTGTTAAAA	CAAAGAAAAT	TTATTTTTTT	TCCACTGAAC	ATGTAAGTGA
75101	TTTAACATAT	AAGGAGGTCA	GCTTTATGCA	TAGATCTATG	CATGTAAATA
75151	TATACAAAAA	TTCTAACGCT	GTGGGAAAAA	TAACATCCTT	ACACTTTGTT
75201	CAGTTATTTT	ATAGTTTTCT	CTCTCTCACT	CAATTGCTTT	TTTTTTTTTT
75251	TTTTTTGAGA	CAGAGTCTTG	CACGTGTGCC	CAGGCTAGAG	TACAGTGGCA
75301	AAATCTCAGC	ACACTGCAGC	CTTTGCCTCC	TGGATTGAGG	AGATTCTCAT
75351	GCTTCAGCCA	CCTGAGTAGC	TGGAATTACA	GGCATGGGTC	ACCATGCCCA
75401	GCTGTTTCAT	GTGTTTTTTT	TTAGTCGAGA	CCGGGTTTTG	CCATATTGCC
75451	CAGGCTGGTC	TCGAACTCCT	GGTCTCAACT	GATCTACCCT	CCTTGGCCTT
75501	GCAAAATGCT	GGGATTACTG	GCATGAGCCA	CCATGCCCAG	CCTACCTGTC
75551	ACTATCTCTA	TGTTTATTTG	TTCAACAGGA	AAATCTCAG	TGAAGACTCC

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75601	TCAGTATGAA	GGAGATAAGC	CTGCACAATC	AGTCACTGAT	AGATGCTTAG
75651	TGGAAAAACT	TCCAATTCCC	ATTTACAGCT	CTCAGAGCTA	GGATTAAAAA
75701	CTCCTGGTCA	TAAACTCATG	TGATGAGAAG	TTATAGCACG	CCCTCATTTT
75751	CTACATATCC	ACTTGCATTT	ATGGTTGGCT	TTTGAACCTG	CTAGAAGGGA
75801	AAGAAGTGCA	AATGTGTCCT	CCTTAGAGCT	ACTCTCCTCC	CCTTGGTGGG
75851	TTTCCAGTTT	GTGCATTGTC	CAGATGGCCC	AGGAGCTGAC	GATCAAAGGG
75901	AAGAAGTCAT	GTTTGTCTATG	AGAATGCTTT	GCTGCATCAG	GATTTCAGTGA
75951	AGCTGTTTAC	CGCCTGGAGC	CCATGCAGCC	TCAAGAGGCA	GGATGGAGCT
76001	CAGAAACCAT	CACTGAGGTT	AGAAAAGTGAG	CACCAAAGTT	GAGGGAAGCC
76051	CACAGGAGTG	AGCCGAAGTG	CTCCCTTTGG	ATTTCCAAGT	GGTTGCTGCT
76101	GCCTTCTCCA	TCAGCCTTGC	TTCTGACCAC	AATGTGTTCC	TGGTGCCCTC
76151	TTCTTGGCAT	TTTGCTGTTT	GTGTCCAAGG	AAAATAGTCC	TGCATGGCAG
76201	TGGTGAGAAG	GATGGCTGCC	TGCTGAAGCT	GATTTGCTGG	TAAGCTTTGC
76251	AGCCTGTTAA	GCAGAGCCTG	AAATTCCTTT	TCATGAGTGG	GTGATTCAAA
76301	CCTTGGAGGG	TCCTCCCTTT	GTGGATCGGC	ATTCAGAAAA	GATTGTGCCT
76351	TTTCTGAAA	CTCTGGGGAT	TATAGGAGAT	CATGCAGATG	GCTGGTGTGG
76401	TTGCTCCAGC	AGGTGGATGT	CTCCTTCGTG	GCTTGTGCT	GTTTCTGTCA
76451	CAGGGGAGAC	TCAGTGTGCA	TGGGCTGCTA	AGGTGCTCCT	GCTTCAGGTT
76501	GAATCATGAC	ATCCTAGGAC	CCCTTGCCCC	GGCTCCACCA	CTGCTGGGAT
76551	TTGGCTGTT	GACCCAAACT	CTAAAATTGT	GGCTAAGAAT	GACCAGGCTG
76601	AGGCTGTCT	TTAAGGCAGA	ACTTCCAGGT	TAGTGTCTCA	TTTTTCTTAT
76651	CCTGAAATTT	TCCTTTCGAC	AGAGGCCAGA	AGCAAGTCTG	TGTATGGGAG
76701	AGCCTCCCTC	CTAGAGCTGG	TACCATTGAC	ACATGACTCC	TGAGTGCCAG
76751	AAGAGGTTGA	GAGAACCTCT	CCATCTGCAC	AGCCTGTCTC	ATGCAGAATG
76801	CAGATGGATC	CAAAAAATCA	CAGGATGTGG	GAGGTGAAGG	AAGAGCTTGT
76851	AAAAATGAAA	AGTGGCTGGT	GAAAGAGTAG	GAGGCATGAA	GAGGATGAGA
76901	CCTGCTGGG	GCAGTGCACA	TGTTTTGTTC	CAGCCAAACA	ATCAGATGAG
76951	GTCTTGGTCT	TGGACCTGGT	GCCAGGGAAT	TCATAAGCCC	CCTTTTGCTG
77001	TGGCCTGGGA	GCTGAGGTCT	TTGGTTCTGA	AACCAAATGT	AAATTTTGGA
77051	CTCTGGAATA	CCTGTCTGTT	TAACCACTTT	CTCTCTACTG	GTGATCGCAG
77101	GAAATGAATT	ATCCTGTAAA	ATTTTGTGGA	TTCTTCTCAA	AGGCTTCAAT
77151	GAGTACACTG	ATTTGTGGTT	CAGTGATGGA	TGTCCCTTTC	CTCCTGCCTT
77201	CTTATTTGAC	TTACACCATC	AATATTAAT	ATGGCAGTTA	TGGTAATATC
77251	ATTCCTTTACA	ACAGAGGAAA	CTTCAAGTCA	TTCAATTGATG	ATATCAAAGC
77301	CTCATTTCTC	TACATTAAAC	ATTCTCCTAC	ATTTAGCTTC	TTGAATCTTC
77351	TATGTCCACT	GTCTAGAAAA	CCTAAACACA	TGAAGTACCA	CAAACCTAGAA
77401	ATAAATACCT	CAATAGGCAC	CAATCATAAA	AGTAAATCCA	AGAAGGAACA
77451	GAATATATGA	ATACATATAT	AACAAGTAAA	GGGATTCAAT	TAATTAATAAA
77501	TCATCACACA	CAAAAAAGCC	CAGAGTCATG	TGGCTTAAT	GATAAATTCT
77551	ACTAAACATT	TAGTGAAGAA	TTAATGCCAA	CTCTTCACAA	GGCCTTCCAG
77601	AAAATAGAAG	ACAGTTATTG	GGAACACTTC	CCAATTTGTT	CTATCAGGCC
77651	AGTATTACCC	TGATACTAAA	GCCAGACAAA	AGCATCACAA	GTAATATATGA
77701	ACATAGATGA	ATTTCCCTGA	TAAATACACA	AACAGAAAAA	CTCAAAAAAG
77751	AGTGAAATGA	ATCAAGATA	AATCAAAATG	ACTGTACACC	ATGACCAAAT
77801	GGAAATTATTT	CACAAATGCA	ATATTGATCT	ATCCAATAAT	CAATCAATGC
77851	ATTACACAAA	GTAATAGGAT	AAAGGAAATT	AACAGAAAGG	TCCTTTCAAC
77901	AGACACAGGG	AGCATTTAAC	CAATCCAATA	TTCAATTCACG	ATCTCCCTGG
77951	AAAAGAGGAG	TACAAGAAAC	TTCTTAGATC	TGCTAAAAGG	CGTCAATGTA
78001	AAACTTACAG	CTAACCCCAT	AATAATAAAA	TACTGGTTGT	TGTGTCTTGA
78051	CATTTGAGAA	CAAGACAAAA	ATGTTAACAT	CCAAATAAAT	TACATAAGAA
78101	AAATAAACAA	AATCATCAAT	GTGGGAAAT	AAGAGGTTAG	AACTCTCTAT
78151	CATTGCAGAG	GACATAATGT	GAATATAAAA	GTTTATAAGA	AATTCATTAA
78201	AACTCACTAC	AACCAATAAG	TGAGTTCAGC	AACATCACAA	GATACAAAAC
78251	CAATATACAA	AGTTCATCG	TACTTTTATG	TACTAACAAT	GATCAACCTG
78301	AAAATAAAAT	TAAGAAAACA	ATTCCATTTG	TGTATGTATG	AAAAGGAAAA
78351	AAAATATTTA	GGAGTAGATT	TAATCAATTG	CAATTTTACA	GTAATAAGAA
78401	AAACTGTAA	ATAACTTTTA	AAAAGTAAA	AAAATAGGCA	TCAAGGTTTA
78451	TTTAGTTAAT	ATTATTCCAT	TATTCAGTGT	ATCCATTTAA	ACTCCATACA
78501	ATAAAATAAA	GTATATTTTA	GCATTATTTT	TAGTGTAAATA	AATACAGGTT
78551	GGTAGAAAAC	TCATAAATAT	AAAAGGAACT	AATACTACAT	GTGCAGAGTA
78601	GCCCATTTCTA	GTTTTTCTAT	TTTACATCTA	CTGTAAATCA	AACAGATTTT
78651	CTTCCATATT	TTATAGTGGA	TCTTAATATA	AAATCCAAAT	TGTTAAATAT
78701	GTGAGATTGA	TTATAAGCTT	GCCAAGGAGG	TTTTTACTCA	GTGTGGGAAT

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78751	TTGGAGAGCA	TAAAGCTGCA	AAGACAGAAG	CAAATGTTTT	TGAATGAATT
78801	ATGAGGGACA	ATACTCACAG	GAGTGATTCC	CACTTTTATC	AGTTGACTCA
78851	TGTGATCTTA	CTTTAGGAGA	AACTGACTCT	CATTTTAGAC	ATTGGTTCAT
78901	CACAGATGCT	AAATGAACCA	GCACCAAGTT	TATATCCAGG	AGAACTGCTC
78951	ACTGTAGAGG	ATTTTGTCTC	CTAGCTGATG	ACATGTTCTG	TCTTTCATAG
79001	GCTACTCCAA	AACTTTTATA	ATGATGGTAG	AGTTCTGTAA	AGTGGAGCCT
79051	CAGGCCTGCT	ATCCCCATGC	TCCTGGCCAG	CAGCAGCATC	TCCCCTGAGC
79101	ATGGTGACAT	AGGGCATGCC	ATTGACACCC	AATTTGCTGG	TGTTCCACCTC
79151	CACATACTAA	GTTGCTAGAG	AATTTGCAGT	GGATTTCCAT	TTTGCTGCAT
79201	CTGGCTGTCC	AGAAGCCCTG	CAAGTAGAAT	GGGATGGTCA	GGAGAAAACA
79251	TTGAAAGAAT	AGATGGGAGT	TCAGAGGCTG	CCCACCCTCC	TGCCCTCTGC
79301	CCACGGGCCA	CAGCCCTCAC	CCAGCTGTCC	AGTGTGTATG	TCTGCTAAAG
79351	GCTGCTGCAC	TTGTTCTCCA	TCACAGAGGT	GGGGTGACAG	CAGTCTGTGG
79401	GCACCACACT	CCATGATCAG	CCTCTACTGT	TGGTGCCACA	GCTCCAGGTA
79451	GAAGGGCAGG	TGAGCCAAAG	ACAGGTCCCA	CCTTCCACAT	CCAGCCCACA
79501	TTCCCACCAA	CTTCCAGGCC	CACCTCCATA	TGCTGATGTG	ATGCTCTCCT
79551	TAGAGTCTTT	GTGTTCTTTC	AGCCAGGAGA	TGGAGAGAGT	GGGGTTTCAA
79601	GAGTAAGGCA	GTGAAAGTTG	GTTTGGGTGG	CCACCATGGT	TGGTGGTTTC
79651	CTGTCCATCC	ACTCGGTCCA	AGTCCAGTAA	GGGGCCTCTG	CTGGTGGAAG
79701	CACACATGAA	GGCCATAGCT	GGGGTGAGGA	GCAGAGACTT	ATCTCACCAG
79751	ACCCCCAATT	CAAGGTTGCC	GCTGCCACC	CACACCCTCT	CTTTTCCCTC
79801	CTGTGTAGGG	AGATTGTTGG	CCTTCAAAC	CCCTCTTCCT	GGGCTGAATA
79851	AGGATCCAG	GAGCTTCAAC	ATAATGTCCC	CACCCAGTCA	TGCTCAGAGC
79901	TGGGCCATGT	GTCCCTCCC	ATTCCCTTCA	CTTCCACAA	GTGGCTGCTC
79951	CTGCTGAGAG	GTTGGGGTGC	TTCATCCTGG	CCTAAAAACC	TCAAAGAATA
80001	ATGGAGTCTC	CAAAGGAGCC	CCCCCCCACC	CAGGGAGGCT	GACAGGGAGG
80051	GTCCACCAGG	AAGGGAGCCC	AGCAGGTAGC	CCAGCTAAGT	GAATGAGCCA
80101	GGGTAGGCAT	TGGGAGCAGT	TTACCAGGAG	AAGAAACTCA	GCCCCCTGCA
80151	GAGCGGGGAG	CCTCAGAAGC	AGCAGAGAAG	CCTTGCCCCA	CAAGACTCTG
80201	AGTCCCTAAG	CCACCCCCTG	TAGAGCTCCA	GGGCACTGGT	GAGGATGGCC
80251	TCCCTGAGGC	CTCAGCTCTT	TTTTGTGCTA	ATGTCCAGGG	CTGTCACCAT
80301	TCCGCCCCCG	CCCCCCTCAC	AGCTGAACTA	TTTTTCTTCT	TTCTGGGGCT
80351	GGGGTGGGGC	TGCCTTCTCT	CCTGGATTCA	TGGGTAGGCT	GGATTGCCTT
80401	ACCCCCAGGA	GAGAGGCACC	AGGGGCCCAG	AAAAGAGGAA	GGAGGCAGCC
80451	CCTTCCCCAC	AGTGACCTCC	TCGCAATTCA	CATGCAGCAA	CAGGCCACC
80501	TCTCAGAGTA	AGATGCTGAG	GCACAGGTAG	GAGCTGTGTA	GAGAGACACT
80551	GGGAAGAGGC	ACCTCTCACA	GCTCTGAGCT	GACCTCCAGC	CCTCCAGGGA
80601	TGGGGGAAGG	TAGACCCATT	GGTGATGAAG	ACAGCTCAGT	GAGCTGTGGC
80651	AGAGGAAGTT	CCCAGGACTG	GGAGACGACA	GTGACTCAAC	GCTGCTCATT
80701	TCTAGACTGT	GCTTCTGAA	AGTGGCCCTT	CAGTTACCCC	CACAGCTTGA
80751	GGCCACACAA	GCCTGGGATG	GCCAGTTAGG	CAGACGCAAG	CAGGGATTCA
80801	GGGGGAGTGC	ACTAGGGTGT	GTGGGCAGGG	GCAGAGGCCA	TTGAGGCAGG
80851	TAGAGGAA	TTTTCATCTT	CTTCTGGTCT	TGCCCCCTCT	CTGGGGTCTA
80901	ATTTCTCTTA	TTCCGTCTGC	CTCTGGCTCC	CTGGCTGGCT	CCTCTTCACT
80951	CTCTTGCTTG	CTCACCCCAG	AGGTCCCAGG	GGCTCAGCCC	ACCACAAATG
81001	GTCCCCAAGT	TGTAGCTGAC	CCTTCCATGT	CCATCCCATG	AGGACCCTCA
81051	TCTGCCTGAG	TATATCTCTG	GGCTCCTCTG	AAACCAGAAG	TCCCACCTCA
81101	CTGACTGCTC	CATGGCTAGG	CAGCATCCAC	CTGCCACTGT	TCCAGGCCAG
81151	AATGACTGGG	CATTGTCCCC	CTGCCTGCTC	CCTCACACCT	ACAGCTCATG
81201	CCCCCAAAAT	GCTGTTGGCA	TCCTTCATAC	AACCCTCACA	GCCACCCTGC
81251	CCCTGCTGG	GCTGTAGGTT	TGGTCTCCTG	GTGCCTTAAC	CCCTTTGTCC
81301	ATCTGCCCCCT	GGGCAGCCAC	CTGAGCCCCCT	GAGCACTGCT	GTGCTCACAT
81351	GTGCAGTAGC	CCCCTCACCC	AGAGCCAGCA	TCGAAGTCTC	CACAGGCCAA
81401	TTCTGGCCTC	ATCACTGCTC	CTGGAACCCC	AGGGCCCTGT	GCCCCAATCT
81451	CCCCATCTGC	AGCATGGGTG	TCTCTTCTTA	CCCCAAGCCT	GCCCCCAGA
81501	GCTCAAGACA	TCCAGAGCCA	TCTAATACAT	ATGTAATACA	TACAAATTAC
81551	ATAACAATTT	GTAATATGTT	GTAATACATA	CACATTTTCA	TATGAATTCA
81601	TCATAATACG	TACAAATTAT	GATGTCATAA	TATATTGTGA	TGTGACAATA
81651	CACATGAATT	ATCATGTCAT	AATACATTGT	GATGTCATAA	CACATACTAA
81701	TTATGATGTC	ATGATATATT	GTGATGTTAT	AATGCATATG	AATTATGGTG
81751	TCACAATACA	TATGAATTAT	GATGTCATGA	TACATTGTGA	CGTAATAAGA
81801	ATTGTGACAT	CATAATATAT	CATGATGTCA	TATGCATGCA	ACTTATGATG
81851	TCATGATATA	CTGCAATGCC	TTAATACAAA	CCAATTATGA	TACAGTAATA

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81901	TGTTGTGATG	TCATAATATC	ATATTTATTT	ATCATATTTA	TCATATAACA
81951	TTTTGTGAGA	TATTTTTATA	AGAAAATTGA	GTGAAATTTT	GTAACATTAA
82001	CATATAAAGA	AGCTTACAAT	CATGATGAAA	GATGAAAGAG	GAGCAGGCAT
82051	CTCACGTGGT	AGGAGTGGGA	ACAGGAAAGA	TGGGGGAGAG	ATACGCCTCA
82101	CTTTTAAACC	ACCAGATCTT	GTGTGTACTC	ACTGTGACAA	TGACAGCACA
82151	GAGCCATGAG	AAATCCATCT	CTATAATTCA	TCCACCTCTC	ACCAGGCCCC
82201	ACCTGTAACA	TCAGGGATTA	AAATTCAATA	TGAGATTTGG	AGGGGAAATC
82251	TAAACTATAT	CATATGACGA	TTAGAAAAAC	AGATGAGGTC	CTTCACGTCT
82301	CTTTGAAGCA	ATTGTGAATG	GGAGTTCACT	CATGATTTGG	CTCTCTGTCT
82351	GTTATTGGTG	CATAAGAATG	CTTGTGATTT	TTGTACATTG	ATTTTGTATC
82401	CTGAGACTTT	CTGGAAGTTG	CTTATCAGCT	TAAGGAGATT	TTGGGCTGAG
82451	ACAGTGGGGT	TTTCTAGATA	TACAATCATG	TCATCTGCAA	ACAGGGACAA
82501	TTTTACTTCC	TCTTTTCCTA	ATTGAATACC	CTTTATTTCC	TTCTCCTGCC
82551	TAATTGCCCT	GGCCAGAACT	TCCAACACTA	GGTTGAATAG	GAGTGGTGAG
82601	AGAGGGCATC	CCTGTCTTGT	GCCCGTTTTT	AAAGGGAATG	CTTCCAGTTT
82651	TTGCCCATTC	AGTATGATAT	TGGCTGTGGG	TTTGTCTAG	ATAGCTCTTA
82701	TTATTTTGAG	ATACGTCCCA	TCAATACCTA	ATTTATTGAG	AGTTTTTAGC
82751	ATGAAGGGTT	GTTGAATTTT	GTCAAAGGCC	TTTTCTGCAT	CTATTGAGAT
82801	AATGATGTGG	TTTTTGTCTT	TGGTTCTGTT	TATATGCTGG	ATTACATTTA
82851	TTGATTTGCG	TATATTGAAC	CAGCCTTGCA	TCCCAGGGAT	GAAGCCCACT
82901	TGATCATGGT	GGATAAGCTT	CTTGATGTGC	TGCTGGATTC	GGTTTGCCAG
82951	TATTTTATTG	AGGATTTTTG	CATNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
83001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
83051	NNNNNNNNNN	NNNNNNNNNN	NNNTTTTAGG	GCAGGCCTGG	TGGTGACAAA
83101	ATCTCTCAGA	ATTTGCTTGT	CTGTAAAGTA	TTTTATTTCT	CCTTCACTTA
83151	TGAAGCTTAG	TTTGGCTGGA	TATGAAATTC	TGGGTTGAAA	ATTCTTTTCT
83201	TTAATAATGT	TGAATATTGG	CCCCACTCT	CTTCTGGCTT	GTAGAGTTTC
83251	TGCCAAGAGA	TCCGCTGTTA	GTGTGATGGG	CTTCCCTTTG	TGGGTAACCC
83301	GACCTTTTCT	TCTGGCTGCC	CTTAACATTT	TTTCCTTCAT	TTCAACTTTG
83351	GTGAATCTGA	CAATTATGTG	TCTTGGAGTT	GCTCTTCTCG	AGGAGTATCT
83401	TTGTGGCGTT	CTCTGTATTT	CCTGAATCTG	AATGTTGGCC	TGCCTTGCTA
83451	GATTGGGGAA	GTTCTCCTGG	ATAATATCCT	GCAGAGTGTT	TTCCAACCTG
83501	GTTCCATTCT	CCCCGTCACT	TTCAGGTACA	CCAATCAGAA	GTAGATTTGG
83551	TCTTTTTACA	TAGTCCCAT	TTTCTTGAG	GCTTTGTTTG	TTTCTTTTTA
83601	TTCTTTTTTC	TCTAAACTTC	CCTTCTCGCT	TCATTTCAAT	CATTTGATCT
83651	TCCATCACTG	ATGCCCTTTC	TTCCAGTTGG	ATCGTATCAG	CTCCTGAGGC
83701	TTGTGCTTTT	TTACGCTAGT	TCTCGAGCCT	TGGCTTTCAG	CTCCATCAGC
83751	TCCTTTAAGC	ACTTCTCTGT	AGTGGTTATT	CTAGTTATAC	ATTCTCTTAA
83801	GTTTTTTTCA	AAGTTTTCAA	CTTCTTTGTC	TTTGGTTTGA	ATTTCTCTCT
83851	GTAGCTCGGA	GTAAGTAGTT	TGATCATCTG	AAGCCTTCTT	CTCTCAACTC
83901	ATGTGGAGAA	ATAGGAACAC	TTTACACTG	TTGGTGGGAC	TGTAAACTAG
83951	TTCAACCATT	GTGGAAGTCA	GTGTGGCGAT	TCCTCAGGGA	TCTAGAACTA
84001	GAAATACCAT	TTGACCCAGC	CATCCCATT	CTGGGTATAT	ACCCAAAGGA
84051	CTATAAATCA	TGCTGCTATA	AAGACACATG	CACACGTATG	TTTATTGCGG
84101	CATTATTAC	AATAGCAAAG	ACTTGAACCC	AACCCAAATG	TCCAACAATG
84151	ATAGACTGGA	TTAAGAAAAT	GTGGCACATA	TACACCATGG	AATACTATGC
84201	AGCCATAAAA	AATGATGAGT	TCATGTCCTT	TGTAGGGACA	TGGATGAAAT
84251	TGGAAATCAT	CATTCTCAGT	AAACTATCGC	AAGAACAAAA	AACCAAACAC
84301	CGCATGTTCT	CACTCATAGG	TGGGAATTGA	ACAATGAGAA	CACATGGACA
84351	CAGGAAGGGG	AACATCACAC	TCTGGGGACT	GTTGTGGGGT	GGGGGGAGGA
84401	GGGAGGGATA	GCATTGGGAG	ATATACCTAA	TGCTAAATGA	TGAGTTAATG
84451	GGTGCAGCAC	ACCAGCATGG	CACATGTATA	CATATGTAAC	TAACCTGCAC
84501	ATTGTGCACA	TGTACCCTAA	AACTTAAAGT	ATAATAATAA	TAAAAAAAAG
84551	AAAGAAAAAC	AGATGAGGCT	GGGTGCAGTG	GCTCACGCCT	GTAAACTCAG
84601	CACCTTAGTA	ATCCGAGGTG	GGCAGATCAC	AAGGTCAGGA	GATTGAAGCC
84651	ATCCAGTCTA	ACACGGTGAA	ACCACCCCCA	TCTCTACTAA	AAATACAAAA
84701	AAATTAAGTG	GGTGTGGTGG	CACCTCAGCAG	TAGTCCCAGC	TACTTGGGAG
84751	GCTGAGGCAG	GAGAATCGCT	TAAACCCTAG	AGACAGGTAT	TGCAGTGAGC
84801	TGAGGTCATA	CCACTGCACT	CCAGCCTGGG	CAACACAGAGT	GAGAATCCAT
84851	CTCAAAAAAA	AAAAAAAATA	AAGAAAAACA	AAAAAAGAAA	AGAAAAACAG
84901	ATGAAATAGT	AATGGTTTTCT	ACAGATACTT	TCATTACAAA	GCATATGGAT
84951	AAATGATTTA	ATTCAACATT	CTGTGGTCAG	AAGAGAGAAG	GGAGGTGTAA
85001	AGGGGACTTT	GACTGCATTT	GTTATACTTC	CCTTATGCTG	TTGTTATGAG

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85051	TTTGTGATGTC	ACCACCTGAA	GGGGTATTCA	TGGACGGAAG	AATTATTGCT
85101	ATTGTTGTGA	TTATTCCTTT	TTCTTTTGTA	TTAGTAAAAT	AAATCTTTTA
85151	GCTTCTCATA	TAATTTTCTT	TAAAAGCCCT	AAGAGTTTCG	GTTAAATTCT
85201	TCGTTATTGT	GTGTTATAAA	AATTGACAGG	GAAATGGCTA	AAATAGGTTA
85251	AAATTACACA	AACTCTAGGA	GTCCAGTTTC	TGTTAGACAG	GCTTAGGAGA
85301	GACAGAAGTC	GAAACACTCC	ACCATCATAG	ACATCAGACA	CATGGGGCTC
85351	ACTTTCTGTC	CCAGCCCTGC	CCAGATCCAC	CCTCTTCTAA	GGCCTTATCC
85401	AGGCCTGGCC	TCACCCTAGA	ATCTCCTCTC	ACAGAAGGAG	ATCAAAATTA
85451	AAGGAGATCA	AAAATTTGAG	TGGTGGCTCC	TCCTGCCTCT	CCTTAGCTGA
85501	TGCCCACAAT	TTCTGAAAA	TAAAAAGCAG	ATAAATGGGA	GCAAATGATT
85551	ATCTATTGTG	GGGTACAAT	TTCTTTTTC	TTGAAGCCAG	TGCTTGTAGA
85601	GACATCCAC	CTAGCAAAT	GTTTTTCTGC	CGATCCGGTA	GATGCTCTAC
85651	AAAGCACAAG	AAAGTCAATA	TAAATACCAA	AAATCCCTCT	GAACAGTTCA
85701	CCCTTTCTGT	ATCCCTTCCA	TCTGTCTATA	TAGATTTTAT	TCTACACATT
85751	TTCTTTTAA	GGTAAGTAAT	TTTAAAAATG	AAAAGAAAAT	AGAAATGCTG
85801	GGCCCTTCAT	TTAAAGCCTA	GGAATTACAG	AACACTTAGC	AGCCAACCTAC
85851	CAGGGTTGAG	GATTCACCTA	CATCAGGTGA	TGTTTGACAG	ACAGTGCTGT
85901	GTAACAGACT	TCTGAACACA	TAGTACACAC	TCAGTAAACA	TTGTATTAAAC
85951	TCATGGATAC	ATGTTTTTCA	AATGCAGACT	TACTCAACCA	TTGATGCCTT
86001	CTCTAGGCTC	TATAACCTTT	AAAGAGCCAG	CAGAGAATAA	CATGTTTGTA
86051	TATAGTGATT	GGTGGTTTCC	ACTTTGGGCC	AAAAGGGTTT	GTGTTGTGGT
86101	AAGAGTGTTG	GGTGTCAGGA	ACTCTCTGTG	CTGTTCTTAC	TTTCTCTGAG
86151	TGCTACTACA	GTGGATATAG	TGGGAGAATC	AACAGTCTCC	CCTTAAGGGG
86201	AGACTTTAAG	AAGCCAATTC	ATGGACCCCT	TCCAAACTTG	CAGAATCACA
86251	TTACTAAGAC	AGAGGCCTGG	AATCAGAAAT	GATTTATATG	TACATTGAAA
86301	CTTGAGAGGC	AATTCCTTGC	TAAGTGGCTC	TCAGCCTAGG	TGTCCAATCA
86351	TAATCACATG	ACCACTTTAA	AGAAATACCA	TCACCTGTGC	TCTCCCCACA
86401	GGTCTGTCT	GTTGAGCTTG	GTGGGCTCAT	ACATATAGTT	TTAATTAGGA
86451	AGTCAAATTG	TCCCTCTTTG	TTGATTACAT	AATATTATAT	CTAGAAAAAT
86501	CTAAAGACCA	CCAAAAACTT	TTAGATTGGA	TAAATAAATT	TAATAATGTT
86551	TCAGGATACA	AAAATCAATG	TAGAAAAAGT	AGTAGCATT	TCATACACTA
86601	ATAATGATCA	AGCTGAGAAC	CAAATTAAAA	GGTCAGTTTT	TTTTACAATA
86651	GCTACAAAAA	AGTAAAACAC	ATAGAAATAT	AATTACTTAA	GTAGGTGAAA
86701	GATCTCTACA	AGGAAAACTA	CAAACTCTG	ATGAAATAAA	TTGTATATGA
86751	CACAAACAAA	TGAGAAAAAC	ATCACATGTT	CATTGATTGG	AAGAAGTATT
86801	ATCATTAATA	TGACCATACT	GCCCCAACAG	TCTACATATT	AAGTGTAATT
86851	CTACAAAAA	TTCTAATGTT	AGTTTTTATA	GAATTAGAAA	AAAATTATAT
86901	TTATATGGAA	CCATAGAAAA	GCCTCAATAG	CCAAAGCAAA	TTTGATCAAA
86951	GACAACGAAG	TTGGACATAT	TACATTACGT	GACTTAAAAT	TATTCTAGAA
87001	GGCTTTAATA	ACCAAAACAG	CATGGTAATG	ATGTAAACAG	ATGCACAGAT
87051	CAATGGAGCA	GTATAGAGAA	CCTAGAAATA	AAGCCATATA	CCTACACACA
87101	ACTGATCTTT	TCCAAAGTCA	ACAAAAACAC	ACACAGAAAA	ATGACATTTT
87151	ATTCAACATA	TTGTGCTGGA	AAAATTACGT	TACTATATGC	AGAAGTATGA
87201	AATGGAACCC	CTAACTCTCA	CCATATACAA	AAATCAACTC	AATATGGATT
87251	AAAAGGCTAA	AATGTAAGAC	CTGAAAAGAT	AAAAATTCTA	GAAGAAACCC
87301	TATGATAAAC	TATTCTGGAC	ATTGGCCTAG	ACAAATAATT	CATGACTAAG
87351	ATCTCAAAAG	TAGATGCAAC	AATAACAAAA	ATAGACAAAT	GGAACCTAAT
87401	TAAACTGAAA	AAGCTCCTGA	AAAGAAGCTT	TTATTTAATA	GGTGAGCAGA
87451	CAAGCTATGG	AATACAAAAA	AAATGTTTGC	CAACTATGCA	TGTGACAAAG
87501	AACTAATGTC	TAGAATATAT	AAAGAAATCA	AACATCTCAA	CAAGAATAAA
87551	ACAAGAAACT	TCATTAATAA	GCAGGCACAT	AACGGGAAAA	GATATTTTTT
87601	AAAAGAAGAC	AATGATGGCC	AATAAGCATG	TAAAAAATGC	TCAACATTGC
87651	CAATGATCAG	AGAAATGCCA	ATTAAAAACG	ACAGTGAAAT	ACCATTTTAC
87701	ACCATTCTATA	ATGGCTAATT	ATTAAAAAGC	AGAAAAATGA	TAGATATTGG
87751	TAAGGATACC	GAGAAAAGAG	AATACTTATA	CATTGTTTGT	GGGAATGTAA
87801	CTTTCTACAG	CCTCTATGGG	AAACAGTATG	GAGATTTCTC	AAAAAACTAA
87851	AAAATAGAAC	TTCCATTGTA	TCCAGCTATC	CCACTACTGC	GTATCTACCC
87901	AAAGGAAAAAT	AATTCACTAC	ATAAAGAAGA	TACCCACACT	CATATGTTTA
87951	TTGCAGGATT	ATTCACAATA	GCAAAGATAT	GGAGTCAATT	TAAATTTATC
88001	TATCAATGAT	TGAATAAACA	AAATTTGCTA	TACATTTATA	CCATGGAAAA
88051	CTACTCAGAC	ATAAAGAATA	AAATTATGTC	TTTTGCAGCA	CCATGAATGG
88101	AACTGGAGGC	CATTATTGTA	GGTGAAATAA	CTCAGAAACA	GAAAATCAAA
88151	TACTGCATTT	TCTTACCTAT	ATATGGAAGC	TCAATAATGC	ATACACTTGG

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88201 ATATAGAGAC TGGAAAAATA GACACTGGAG ACTCAGAAAG ATAGGAGGTT
88251 GGTAGAGGGG TTAGAAATGA GAAAAACACC TAACTGGGAC ATGAGCACCG
88301 TTCAGGTGAT TGTACACCG AAAGCACATA CTTCACTACT CTGCAATATG
88351 TCCTGTGCAT GAACTTCAT TTGTACTAAC ATATTAATAA AGAGAAAAAA
88401 ACTGACTTTT ATCAAGAGAG CAGAATGAAT AGACCTTCTA CTTTTCATAA
88451 ATACTTAGGC AGAAAAATAA TTTTAATAAA AATAAATAAA AAATGTATAT
88501 TATATATATT TTACATAATT TATATATTGT AAATATATAT CAATATTTTT
88551 ATATATCAAT ATTTGTATAT ATAAAATATA TATCAATATT TTATATATAT
88601 AAATATATAT TATATATTAT ATATATAATA TATTATATAA AATATATATA
88651 ATATAAAATA TATTATATAT TATATATATT TATATATATA AAATATATAT
88701 ATATGGGGTC AGGGTCTCAC TCTGTCACCC AGGCTGGAGT GCAGTGGCAT
88751 GATTTAGCT CACTGGAAAC TCTGCCTCCC GGGTTAAAGT GATTCTCCGC
88801 CTGCCTCAGC CTCCCGAGTA GCTGGGATTA CAGGCGCCCC CCACCATACC
88851 CAGCTAATTT TTGTGTTTAT AGTAAAGTAC AGTGTTCAC CATGTTGGCC
88901 AGGCTGGTCT TAAACTCCTG ACCTCAGGTG ATCCATCTGA CTCAGCCTCC
88951 CAAAGTCCTG GGATTACAGG CATGAGCCAT CACACCTGGC CAATAATATT
89001 GCAATATAAG AATGGTATAA AAAGACACTT TGATGAGTTA GAGTAGTTCT
89051 TAGCGCAGAG AATATGCAAG ATTCTAAGCC ATTAGACATT TGTAGACAGA
89101 ATATCTAACA GTGTAAATA AATAACACGA AGATTCAATT GCAATGAGAA
89151 ATTGACTTTT TTCAATCATA TTAGATGACA TTAACCACAT TATAAAATTT
89201 ACTGTTTTGT ACATAATAAA GGATCATAAT GTTAAACAAC TTCATTAAAA
89251 GTTTGACAAA TTAGGCATAT AAATAGGCAG CATGTTGACC AGTAAACAGA
89301 AAATACACTT TTCAAAGACC AAACAAAATT ATTTTATTAT ATTTATTAT
89351 TTATTTATTT ATTATTGGTG GATGAGCAGC TTTATTAGCT GGGGATATAG
89401 TGGGGTCTCT TCCCTGGGAG GTGGGTCTT TCACTGGTCA CTCCCGCAG
89451 TGGTCCAGGA GGCGCCAGGC AGTTCAGTGC TGGGCTTAGC TGGGGGCTGA
89501 GCCTTGAAGA AGCGAACC TGCGAGGAAG TAGTAGCTGT GGGGTCTCAC
89551 CTCCCGCTCC GCCCTGCTGC ACTGGGTCTC CTGGTGCTCC TCAGGGTCCC
89601 GCCGAGCCTG AGTCTCTATA GGACAGTGGC CCATCCGGCC CGAAACCTTC
89651 TCCTCAGAGC CCAGTTTGAG GCAGGCCAGG CATTTCCACT TCCTTCCCTT
89701 GGGATGGACT TCGCACTCGT GTTCTTCCA GTCCTTCCGC CGGCCGCTTG
89751 TCTGCCTGAG CTAAATTCC AGTTTCACAA ATGTTCCAGC TGGGAAGGAC
89801 GTATCCACCG CGCCGTCCAC ACCGTTCTCC CGGAAGGCC ATGCCGGGGA
89851 GGTGTCATTC CTCAGGGCT ACCTGCAGGC CCCGGAGCTG GGCCCCGGAG
89901 CTCGGACCCG CCTGCCTCCC CAGCGCCCCC CGCGCCACC CACGGGGCCA
89951 GCAGCATCCG CAGCCGTGGC TTGCTTCTGC GGTCTCTCAC TCTGGCCCTG
90001 CGAAGCTCCT GTGCAACGCT CAGCTCTCTG AGCCCGCTGG GAGGTGCCTC
90051 CTCCCTGCT CTCCCCTGG GTGGCTATGC CCACAGAACT CTGGGCAGAG
90101 GTCAAAGAGC CAGGAAATGT CTCTTCTCC AAATTGACTT TGGTGTGCGC
90151 CTGGTCTCT CCACTCCCTC CTGCCCTGTC CACACTGTTC CCTGGGGCCC
90201 GCAGGTTTAG CAAAGTTCCC TGCCCCCTGC CTGGGCCAGG AAGCAGTCCT
90251 GTTGCCCACT CCCACCCTTC AACCCCTTTA TGGCCCATTC TCTCTCCCA
90301 CTGGGTCTCT CACACGACAA CCCCTCCTCC CTACTGTCCC CGGAGCCCTC
90351 CTCTGGTTCT CGCGCTCAG CTCTTCCCTG ACTGCTTCTC CATCTCCATC
90401 CTGAATCTCC CAGCTCCAGT AGGGTGCCCC CCAATCCCAG GGCCAGGCA
90451 AAACCAACAA AATTATTTAA AATGGGAATA TTTGAATTCC ACTGAATTCC
90501 TAAAAGCAGA AACCCATCTG GTTATATTTT AAAGAATTAT GAATTAATAA
90551 TAGCAACTAT CAATTTAAAG TGTAACCAGG GTTAAGAATA CCCACCATTT
90601 TAACAACAAC AACAATGAAA GCGTGTTATA GCTAACAAAC TAGTTCTGGA
90651 AAGTTGCAGG ATACAATATT AACATGAAA TCAGTTGCAT TTGTATACAG
90701 TAACAACAAA ATATCTGAAA AAGGAATAAA GAAAACAATT CCATTTACAA
90751 TATTATCAAA TAGAATGAAA TACTTAATTC ATTAAATAGA ATGAGTTTAA
90801 CCAAGAAAAT TAAAGATCTG CATACTGGGT CGGGCGCGGT GGCTCATCCG
90851 TGTAATCCCA GCACTTTGGG ACACCAAGGC GGGCGGATCA CGAGGTCAGG
90901 AGTTCGAGAC CAGGCTGTCC ACATGGGGAA ACCCGTCTC TACTAAAAAT
90951 AAAAAAAAAA TTAGTCGGTG GTGGTGATCT CCTGTAATCT CAGCTACTCA
91001 GGAGGCTGAG GCAGGGAAT CACTGAACC CAGGAGGCAC AGGTTTCAGT
91051 GAGCCAAGAT TGGGCCACTG CACTCCAGCC TGGATGACAT AGTGAGATTC
91101 CATCTCAAAA AAAAAAAAAA AAAAAAAAAA ATCTGCATAC TGAACACTAT
91151 GAAATGTTGA TGAAAGAAGT AGAAGAATAG GCCAGTTGCG GTGGCTCAGC
91201 CCTGTAATCC CAGCACTTTG GGAGGCCGAG GTGGGTGGAT CACGAGGTCA
91251 GGAGATTGAG ACCATCCTGG CTAAACGAT GAAACCCCGT CTCTACTAAA
91301 AATACAAAAA ATTAGCCAGG CGTGGTGGCA CGCGCTGTA GTCCAGCTA

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91351 CTCGGGAGGC TGAGGCAGGA GAACTGCGTG AACCTGGGAG GTGGAGCTTG
91401 CAGTGAGCTG AGATGGCGCC ATTGCACTCC AGCCTGGGTG ACCGAGCGAG
91451 ACTCCGTCTA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AGCAAGCAAG
91501 CAAGCAAGCA AGCAAGAAAG AAGTACAAGA ATACGAAATG TGAAATATAT
91551 CCTGTGTTCA TGGATTCTAA AAATTAATAT TGTAAAAATA TCTATACTGG
91601 ACAAAGTCAT CAACAAAGTT AAAGAAATTT CTATCAAAT TTTAATGCCT
91651 TTAAATAAAG TGTAACAACAA ACAATTCTAA AATTAGTATA GAGCCATGAA
91701 AGACCCCAAA TAGGCAAATA CTGTGAAGAA CAGAAAGGCT GAATGCCTCA
91751 AACTTCCTGA TTTCAAAGT TATTACAAAG CTATAGTCAT TAAAGTAGTA
91801 TAGAAGTTAC ATAGGAACCA CTGAAACAGA ATAGAGGACC TAGAAATAAA
91851 TTCACCCATA TGCAGTCAAC TGGTCTTACA GAACCAAGGAA AAGATAGGGA
91901 CATCAAGAAG TGGTTTAGAA AAAACTAGAT ATGCACACAC AAAAAGTGAA
91951 ACTTTCTTAT ATCATCACAA AAAATGAGTT TAAAATTTAA GGCTTAAACA
92001 TAATAACTGA AATCACGAGT CGTCTTTAAA AAATAGGGAA AAAGCTCCTT
92051 CACCCCGGTC GTGGCAATGA TGTTTTGGAT TCTACACAAA GAACACAGGC
92101 AACAAAAGCA AAAATTTAAA AAATGGAAGT ATATCAAAGT TTCTGCATGA
92151 TAGAAGAAAG AATCAAGAAA ATATAAGAC AATATATGGG ATGGGAGAAA
92201 ATTTTCGTAA ACCATATGTA GGATAATATG TTGTATTCA AAATATACAG
92251 AATACTAATC AATATGAAAA AAGCATCCAC AGGAGAACAA AACAAAAACC
92301 AATTCCTGTA TTAATTGGGC AAAATATTCA TTTTCCAAA GACATACAAA
92351 TGCCAGCAG GTATATGAAA AGTTTCTCAA CATCACTAAT TATCAGTGTA
92401 ATTAAAATCA AAATCAAAT GAGAAATCAC CGTATCATGG TGTTAGGATA
92451 ACTATTATCA AAGTGTCAA AGAACAAAGT GTTAGGGTGC ACAGAAAAGA
92501 CAATATTTGC ACACAGTTGC AGAGCATGTC CTTGGTGCA GCCATTACAA
92551 AAAAAAATC CAGTATGGAG TTTCTTAAA ATTTTAAAC TTGAAGAACC
92601 ATTAATCCCA ATTTGGAGAA TATAGCCAAT GGACATAAAA TTTAAGTATA
92651 GCCGAGGGCG TTTGCATGCC TCTGATACAA ATAGATGGAT AAAGTGAAG
92701 ACAGAGATAA TTTCAGCTTT AATAAGGAAT GAAATTGTTT TAGTTACAAA
92751 AATATTGATG AACCTTGAAG ACATGATGCT AAGTGAGATC AGCAAAATAC
92801 AGAAAGGCAA ATATTGCATG ATCTCATTTG TATGTAGATA TATTAATAAA
92851 AAGAAAGAAA GCGGGAGAAG GGTAGTTTGC ATGGGCTAGG AAATGGGGAA
92901 AGGAGGAGAT ATATCCATTG AAGGGTGCAT ACCTTCAGTT ATATAATGAA
92951 AAAGTGTGG GGACCTAATG TGCAGAATGG TGACTATAGT TAATAATAAC
93001 GTGTAGTTGA AATCTGTTAC TAAAGTAGAC CTGAGGTGGT TTCACTACAC
93051 AACTGAAAT GTATAAAGTA ACTATGTGAG GTGTTAGATA GGTAAACCAG
93101 CTTCACTGAG ATAATTTAAA GACGTATACA CATCTCAAAG CACTCTATTG
93151 TATACCTTAA ATAAATACAC TTTTCAATGT GTAAATGTGG AAAAAAATTA
93201 ACAGTAGTCA GCAGGTACACA TCTAGCCACA TGTAACCTTT ATTTAAATTT
93251 GTTGGCCACC CTTTCTGGCT CAACCCGGGA ACAACCGGAG CACTTCTGGC
93301 CCCTTGGACT TTGACGCTCC TCCCACTGTT CCTGTACTGG GGAAGATATG
93351 GATAGTTCCC AGGGGTGGGT GGGCGCAGTG GCTCACGCCT GTAATCCCAG
93401 CATTTTGGGA GGCCAAGGTG GGCGGATCAC TTGAGGTCAG AGGTTGAAGT
93451 CCAGCTAGAC CAACATAGTG AAACCTGTC TCTACTAAA ATAGAAAAAT
93501 TAGCTGGGTC TGGTAGCTG CGCCTGTAAT CCCAGCTACT CAAGAGGNNN
93551 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
93601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNGT
93651 TGAGGCAGGA GTATTGTTTG CACCTGGGAG GCAGAGGTCG CAGTAAGCAG
93701 AGATCGTGTC TGTGCTCTCC AGTGTGGGCC ACAGAGTGAG TCTGCGCTTT
93751 AAAAAAAAAA TATAATATAT ATATTATATA TTATATATAA TATATATATA
93801 ATATATTATA TATCTAATAT ATATATTATA TATAATATAT ATTATATATA
93851 TACTATATAT ATTATATATA TAATATATAT ATAATATATA TAATATATAT
93901 AGTATATAAT ATATATATTA TATATATAAT ATATATTATA TATAATATAT
93951 AATATATAAC ATATATATTA TATGTTATAT ATATATGTAT GTATGTATTT
94001 CCCAGGGTTT TTTCACATCC CAGACTGTGC AGATCAGGGA GGGCCATCAG
94051 CAGTCCCTTT ACTAGTTGCC CACAGACCCG TTTGGCTCCA GGCAATGCAT
94101 ATCAGGGCAT CCAGGTGGGA GCCACAGCAG CCAGCAGGGA GGAGGCTGCC
94151 TTTGGCTGCC TGCAGTCTGG TGGCCTCTGG CTCCGAGGT GTCTGTAAGG
94201 CCCAGCGCA GCCCTCCTC ACATTGCCTG TGAAGGCAAT GTAAGTGCAG
94251 AACATACTGA GGAGGAAATT GAGGAAAAAA ATGTCCCCCA TATATTAGAA
94301 TAATTGTCAT TAGATCGCTT ATGCTGCAGA CAGGGTCACT GTTTATCATT
94351 ACTGCTGTGA AACCCGCTAC AATTGGAAGA GAAAATGATC TAGGGCATAC
94401 CCTTTGATTC CCATAAGTTG GTGTCAGTAG GTTTCATGCA GAAATTTATT
94451 TTGACCATGA TTTACAAAGT TACGTCCTTC TAGATCAAGG CAGTCAAAAT

FIGURE 3, page 30 of 41

94501 TGAACAACTG TTCATGGAAA ATGAATTGTT CAGCTGAAAA CTAAATGAGA
94551 CCCTTATGTA CGTGAGCATA GACATAAATT TAAAATTGGA GAGACTGTGT
94601 CACCCTTTCA CATTACCCCT GGCAGTGATA GCTGTGATGG CTGTGAACCA
94651 TGGCAGGTTA GAACTCAGTT TTGCTTTGAT AAGAAAGATG AATCTTTTGT
94701 TGGTCTACCA CTAAGTAAAG AGGAAAATGA GTTGGAAATA AGTAAACAAT
94751 TAAAGAAAAT ATGACTAAAA TGGGGTTTAC AGAATATAGA TTATGAACAT
94801 GAATAGACAC TGAATAATCT AAAATATAAA GATAGAGCTG GAAATCATAG
94851 TGAGCAGATT GGAAGTGAAG GAACATTCTA GAGAGATGTT GCTCCTGCAT
94901 CTGTTTCATTC TGAAATTACT GACAGTAACA AATGTCAGAA GATGTTGGAG
94951 AAGATGGGTT GGAAAAAAGG AGACGGCCTG GGAAGGATG GTGGGTAATG
95001 AAATCTCCGA TTTAGCTTCA GCTTCAGTGA ACATATGGAG GCTTGGGGAC
95051 AGGCAATCCA TCCTCAATTG AAGACGTTCA GCTTCTCTGA AACAAAAAAC
95101 AACCTGGGAC AAAGCGTGAG AGAGGTTTGC TGAAAATTTT CCAGAAACCA
95151 AACCTTAAAA AGATGACCTA GGTACCAGGC CTTGGATAAA AGGAACTGTA
95201 CAGTGAAGGT TAATCATAGA AGAAAACCTCA AGCTTTTCAA AAAATAGAGT
95251 TTGGAAACTC TTATTTTATT ATATATTTGC AGTACTTTTC TCCCCAAAAG
95301 AGTCTGTGGC ACAGAGGAAC AGTGTACAG TTTACCCCTT CTTGATTTCAG
95351 AAATGTGTAA TAAAGTTTGG TTTGCAAATT TTAAAAACA TTTTTTAAAC
95401 TAATAAATAT TGACTCAAGT TATTCAGTAA GTGGACTAAA GTTTACAGGT
95451 TAAAGATGAG TTTATCAAAC TTCTTTATTT TATCTTGTCA TTTATGACAT
95501 CCATATAAGC AAAAAGCCAC ATAAGCAAAA CTCATAACCA CTAATGACTT
95551 AAATGTACAT TTGTCTGTGT GTCCATGTAT TCACAGTAAG GTGCACAGCA
95601 AAAGAAACAA CAAAAGTTTA TAAAAATAAA TCTGACTACA TGCATCATTG
95651 TTTATGCCCT TTAGAAACCTA GATAAAAGAA CCTTTATAC TTGAAATAGC
95701 CTAAATATTA TTGAAGAACA AATGAACAGC TGATATATTG TAGAAAATTA
95751 GTCAGTGTTC TCTTTTTTGA AGAATCCGTT TATTAGTACT ATATCTTCAG
95801 TATTTATATT GGTGTGTTTC ATAGCTAATG TGATATTTAG ATATGAACAA
95851 CTGAGTACAG TGTTGAAATA GTGTGCTGGC ATTTGTAGTT TTCATAAATA
95901 TTATTGCAGG CAGTGGTGTG GTGCCACAGA AATCTGATTT CTAGTACATA
95951 AGGATTACTT AGCCAGGGCC TCATGTTTAA GATATTTAAT GAAAATGTCT
96001 TCAACTGCAA TAAAAACATT GTAACATTAA AAATACTCTT TTCAATAAAT
96051 TCTAAATTAA AAAATTCAAA TGATACCTTT TATGGAGTTA GGAAGTGCT
96101 AATAAGGTAA AATGGCAACT GAAGCCAAAA AATGTAAATT CAGGTAAATA
96151 CTTTACCCT TATTAGTTGT ATGTTAAAGG AAACAATAAT AAACAATAAT
96201 TCTGACCATA TACTATTTAC TGCAGTAAAG TATTTGAGAA ATTTGTGCAT
96251 AATACATAAT TAATTTTCTA ATGGTATAAA AGTAATCACA TTCTACAAAT
96301 TATTACAACA CGGTCTATTG AAGACAGCGG CATTTCAAGT GAAGAATCTT
96351 AGAGTTTCTC ACGAGGCAGT GATATATGCC ATATGAAATC TAGGTAAAT
96401 ATTTTACTCA TGTATGCAAC AGTTGATATT TCTGCTTTCC AGGAAAATAA
96451 CATGCTTTAA AACTTTAATG CAGGTAACCT AAATCACCAA GAAGTTATAA
96501 GAACTCACAC AATGACTAAT ATAGTTGAAA GAAAATTATG AAAACTTCTC
96551 AGGACCAGAA GTAAATAAAG GGTATAATCC AGAGAAGTAT AGACCTAAGA
96601 GGCCAGTGCT CCATTTCAGT GCATCTGATC ACAAGGACAT CAGATCCACA
96651 TGGGTTGTTT AGCTTCTGAC AAAGCAAATG GAATAAACAA AGAGAACTG
96701 CCTGCAGGCA TCCAGAGTGT GATGTCTCCT ATATGTGAGA GCTAAACTAT
96751 AAATTATGTT GCACACAAGG AGAAGAGCTA TTAGAGTGAA GCATTAAATT
96801 ATATGGCACA TAAACTCAG ATATGAGGAT TATAATTACA TGTTTGCCAA
96851 TATAATGAAA ACACAAGAAA CCGAAATAAT GTGGAAAAAA CTATGAGCTT
96901 GTCAAGTCAT ATTTGGAAAA GAGGCGAATG GAAAGTAAAC TTGAAAATTT
96951 GGTAAAACAA CTTAATGTAC AGCATACAAA TTACACATTG AAATAGACTG
97001 AGATGGTGAG AGGACTAGTA AACTGGAATG CTGAGCACAA TTAATGTAGT
97051 AATATACTTT TTAGAAGGCA AATTAATACA AAATACAAAT ATATATGAAA
97101 ATTAGATGAG AAGAAATGAA AAACATTTAA TTGCTTTACT ATACTATATA
97151 AACAGGAGGG CAATATTCAA AAAAATCAGT GACTCATAAT TTTCAGAAAT
97201 TGGAACCAG GCATGAATCC TATAAAAGTT TAGAGTGTGA TGTGTCAGAA
97251 AAGATAAATT AAGAAATACT TAAAATAAAT AATGATTTTG GTTATTGTGA
97301 ATACTGCTTC AATAAACATG GGAGTGCAAT TATCTTTTGG ACATACTGAT
97351 TTTATTTTCT TTTGATATAT ACCCAGTGGT GAGATTGCTG GGTATATAT
97401 ATGGTAGTTT TATTTATAAC TTCTTGAAAA ACCTCCATGC TGTTTTTCTC
97451 AATGGTGGTA CCAATTTAAA TTCTCACCAA CAGTGTATAA GTGCCTATTT
97501 ACAGATGAAT GAAGAAAATG TTATACATAC ACACAGGCAC ACATACACAC
97551 ACAGGAATAA TGCTCAGTCA TAGAACAGAA TGAACCTCTG TCATTTATGT
97601 GAACATGGAT GAACCTAGAG GACATTATGT TAAGTGAAT AAGCCCATCA

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97651 CAGAGAGAAA AAGACCACAT GATGTCACTC ATATGCAAAA TCTAAAAAAG
97701 CAGATCTAAT AGAAGTAAAG AGTAGAATGG TGGTTACTAG AGGCTAGGGA
97751 GAGTGATGGG ATGAAGGAAT GGGGAGAGGT TTGTCAAAGT TACAAAGTTA
97801 CAGTCAGGGA GAATAAATTC TGATGTTCTA TTACACAGTA GGGTGACTAT
97851 AGCTAATATA ATGTACTATT TATTATAACA CAGCTAGAAG AGAGGTTTTT
97901 GAATTTTAAT AGCACAAATA AATTATAAAT GTTTACTACTG CTAGATATGC
97951 AAATTACCCT CATTGGGTCA TTTTACAGTG TAAACATGCA CTGAAACATC
98001 ACACTGTAGC CCATAAATAT GTACAATTAT TATGTGTCAA TTATACATAA
98051 AATAAATCTT AAAAAATAAT AATGATCGAA TTGCATAAAA TCAAAACGAA
98101 GAAAAACTCT TAAAAGTAGT GAGATAGAAG ACAGCTAACC TGTGAAGCTG
98151 AGGGAAAACA CTTACCTCTG TATCAAGTCA GAAAACAGAA AAATTAATAT
98201 CAGTAAATA TTAAGCTT CTGGACAGCA CAGAAATCTA TTAATAGAGT
98251 GAAAAGACAA CATATAAAT GAAAAAAAT ATGTGCATCT GGCAGGGAGT
98301 TAATATCCAA AATATATATA TGAATCAACT CAACAGCAAT AAAAATCAAA
98351 AACCCAACTA AAGAGTGAGC AAAAAACCTG AATAGACATT TTTCCAAAGA
98401 AGACACAAAG AAATGCTCAA CATCACGAAT CATCTGGAAA ATGCAATCCA
98451 AAACCACTG AAATAGTACC TCACCCCAT TAGAATGGCC ATTATCAAGA
98501 AGACAAACGA TAACAAGGTT TGGATGAGGA TGTGGAGAAA AGGGAACACT
98551 TATACACTGT TGGTGTGAAT GTAAATTTAG TACCTTTTTA GATTCATTTA
98601 TTTATTGATA AGAAACCTGC ATGGAAACT ATGCAGGTTT CTCCAAACAA
98651 AAAACAAAAA CCTAAAAATA GAACTACCAT ATAATCCAGC AATTCCATTA
98701 TTGAGTATAT ATCAAAAGGA AATAAAATTA GTATATTGAA GAGATAGCTG
98751 CTCTCTCATG TTTATCATAG CTCTATTGAC AACAGCCAAG ATATGGAATC
98801 AATCTTGTGT CCATCAGGGA TAAATGGATA AAGCGAATAT GGTGTATACA
98851 CATAATGGAA TACGATTTAA CCATAGGAAA AAAAAAATCC GCCCTTTGGG
98901 AGGCCGAGGC GGGCAAATCA GGAGGTCAAG AGATCGAGAC CATCTTGGTC
98951 AAAATGGTGA AACCCCTTTT CTAATAAAA TACAATTAGT TGGGCGTGGT
99001 GGCACGCGCC TGTAGTCCCA GCTACTCAGG AGACTGAGGC AGGAGAATCG
99051 CTTGAACCCG GGAGACGGAG GTTGCAAGTGA GCCAAGATCG CGTCACTGCA
99101 CTCCAGCCTG GCGACAGACG TTCCGTTTCA AAAGAAAAAA ATAATATTAA
99151 TAAAAAGAAT AAAATCCGGC GCTGCGCGGT GACATCAGTC TCTGTCGTTA
99201 ATGCCTCGCG CCGGCTACCG TCCTGCGCAG TCTCTTTCTG AGGACCCCCC
99251 CCCCCACTCT CCGCCTTCCA ATAAGGAGTT CAGGTTTTGC GGTGCGCGTG
99301 GTTGCTGTTT CTGCTGCCAC AGGTTGGAAC TGGAGATGCC TCTTCCTTCT
99351 CTCAGGACAG AACCATGAGC CTAGCGGCAG CGCCGGTTCG CGAAGCTCCC
99401 CCTCCGCCAA CGGGCGCCTC CTCAGAGCCG TCCGTGCCCC CCCTGCCGGG
99451 AGCTGACCCG CAGCGCAGTG CAGAGTTGCT CCTGTTGGCG GTGACCAGGG
99501 AGGGACTGGA GCGGCGGATC ATCTCCAGGA AGCGGGCTGA GTAGGAACCTG
99551 CAGCCGCCAC ATCTCTCTT TACCCGGGGA TGTGCAGGAT TACCGTGAAG
99601 TCATGACTCG TCATCCTGCG AATTACCAAT GGGAAAATTG GAGTCTAGAA
99651 ATTATTGCCT CCATTTTAGC CCACCGGTTT CCCAGTAGCT GTATTGGGGT
99701 GATGAAGTGC TCCGGAACAA ATGCGCTGCC ATGATAGTTT TCTGAAAAGT
99751 AACATGTTTG GTTTCCAGA ACACAATACA GACTCTGGAG CTTTTAAGCA
99801 CCTTTATATG TTATTAGTTA ATGCTTTTAA GTCAGAGTAG TTTATCAAAG
99851 GAAAATTTGA ATGATTGGAA TAAGGACTCC ACAGCATCTA ATTGTAGATG
99901 TCCAATTCTT CTCATACTAC AAATCATTTT CAGGAAGGAA AAGATAGGAC
99951 CTTTGAAAAA TCTGATGGAT CGGCCATGTG TTTTATCCA CCATCACTAA
100001 ATGATGCATC TTTTCCTTTG ACTGGATTCA ATAAATGTGT TGTTTTGAAT
100051 CAGTTTCTTT GAATTGAAAG AAGCCAAGAA AGACAAAAAC ATAGATGCTT
100101 TCATTAAAAG CATAAGTACA ATGTATTGGC TGGATGGTGT TCATTCCGGA
100151 GGAAGGAATA CTGGAGTTAC TTATCCACAA GTCTTGAAAG AATTTGCACA
100201 AACAGAATT ATTGTTTACA CCCATGGAAC ACTTTACCAA GTATGTGATC
100251 TAATGAGATC TTGCATTGGA AAGGAGCAAA ATAAATTTTT TAGATACTTG
100301 GGATATTGG TATGCTGGTG AGTAGCTGAA TTCATTTTAC GAAGGAAGCT
100351 CCTACATAG AGAATCCCTT TCAGAATTCA TGAAGTGTTT GAGACTACAA
100401 GTATATTAAT GTACTTGTTT AGCGGAAGAG CATAAGCACT TTGAGTGTTA
100451 TAAATTCAGA TAATGGAATG TACTTCATAG ATGTATTGTC AGTTTGGGGG
100501 TATGGAGGGA AGCACACATT CCTGAAAAAT GAGTGTAATG TGC

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FEATURES:

Start codon: 1000
Exon: 1000-1062
Intron:1063-2440
Exon: 2441-2514
Intron:2515-3016
Exon: 3017-3171
Intron:3172-33878
Exon:33879-33959
Intron:33960-39894
Exon:39895-40002
Intron:40003-50367
Exon:50368-50398
Intron:50399-50736
Exon:50737-50886
Intron:50887-53571
Exon:53572-53605
Intron:53606-65379
Exon:65380-65613
Intron:65614-74191
Exon:74192-74299
Intron:74300-79441
Exon:79442-79459
Intron:79460-99355
Exon:99356-99544
Stop codon: 99542

336000014324295

SNPs:

DNA Position	Major	Minor	Domain	Protein Position	Major	Minor
948	T	-	Beyond ORF(5')			
1149	G	A	Intron			
4199	G	C	Intron			
4352	T	G	Intron			
6493	A	G	Intron			
14047	T	G A	Intron			
14136	G	T	Intron			
14238	G	A	Intron			
14260	T	G	Intron			
25736	C	T	Intron			
26321	G	A	Intron			
31359	A	G	Intron			
35098	T	G	Intron			
40532	C	G	Intron			
41706	A	G	Intron			
51095	G	C	Intron			
53101	G	C	Intron			
54556	G	C	Intron			
61872	-	T	Intron			
62172	G	C	Intron			
62860	A	C	Intron			
67086	C	A	Intron			
67621	A	C	Intron			
70582	A	T	Intron			
74175	C	-	Intron			
74478	T	C	Intron			
77092	T	G	Intron			
77328	T	C	Intron			
77385	G	A	Intron			
77947	C	T	Intron			
79395	G	C	Intron			
81111	-	C	Intron			
81610	G	A	Intron			

Context:

DNA
Position

948 TGTGTCCTCCTGAATCTTAGTGGCCTTCTAAAGGCGGGTGTGATCAGCCATGGGTATCAG
AGACACTGGAGTCCAGTAGCTGCTAGGTGGGACACGGGCACAATTTCACTTGCAGACCAG
CTGCACGGAGTGGATAAAGAGAGAGTTCTGTGTGGGAATCTCCTTTGGTGGATCATCAGG
GAGGTGAAGTCTTTGTTCATAGCCTCATATCCAGCTTGTGTGATACCAATTCAGTGAAGC
TGGAACAAGCTGGCACTGCTCAAACAGGCCTACCAAGACATCATGTTTTTTTTTTTTTTT
[T, -]
CCACCAAACCTGGACCTGAATGGGGATGTGGACACACATAGAGTCCAGAGGATGGGACCC
TGGTCAGTGGTGGTGTCTGGTGTGCGGCATGAAGCAGCTGGGGCAGGCCCTCCAGGTGGGA
GGAGGAGCCAGCCTCTCCTGTGGGGTCTTGGGCAAGTCATTTCCCTCCTTGACGCTCTGT
TTCTCATCTGGAAAATCCAGGAAGCCTGTTGTGCAGTCCTCAGAGGGTCATGATAAGGT
GCAAAGGAGGAAGAAATTTGAGAGTTCTTGTGCCTTCCTCTCCTGAGAGGGATGATGG

1149 CCTCATATCCAGCTTGTGTGATACCAATTCAGTGAAGCTGGAACAAGCTGGCACTGCTC
AAACAGGCCTACCAAGACATCATGTTTTTTTTTTTTTCCACCAACCTGGACCTGAA
TGGGGATGTGGACACACATAGAGTCCAGAGGATGGGACCCTGGTCAGTGGTGGTGCTGGT
GTGCGGCATGAAGCAGCTGGGGCAGGCCCTCCAGGTGGGAGGAGAGCCAGCCTCTCCTG
TGGGGTCTGGGCAAGTCATTTCCCTCCTTGACGCTCTGTTTCCTCATCTGGAATCCA
[G, A]
GAAGCCTGTTGTGCACTCCTCAGAGGTCATGATAAGGTGCAAAGGAGGAAGAAATTTTG
AGAGTTCTTGTGCCTTCCTCTTCTGAGAGGGATGATGGTGAGAACAGTGTGGATAACCA
CATGCAACTGAGTCCCCAAAAGGCCCTGTGAGGAAGGTGTTGTTCCCATCATGCTTCCCA
GATGAGGAAACAGTCTCAGGGAGGCCTGGCTGCATGCCAAGGGTTACACACACACTGAA
TGTTGGAGCTGGGAGTAAATCTAGAGTCAGGGCTACTGGAGGTGGTGGGAGCATTCAC

4199 AATGTGGATGATGGTTGCAGAACAATCTGAGCATGATTAATTCCTCTGACTTGCACGTTA
GAAATTGTTAAAATAGTTAATTTTATGTATATTTACCACAATGTAAAAAGGAATTTT
AAATGAACAGACTGTAGATACATGCAACAGCATAAATGAATATCACAAATATAATCTTGC
ATTTAAAATTTGATGTAAAAGTATCCAACTATATAATTTTATTATACTAAATCCAAAA
ATCAAACTGACATTCCTTGCTTCTACTAATGGGAATTAGCTAGTTAACTAACACTCTCA
[G, C]
AGAGAAAATGATGAATCCTAGATAAAATAGTATATATCATTATAAACACTTCTATATAT
AATACATATATGAGATATGTGTGTATAAGAAGTGAATGAGGATGTCCCCTGTGCCCTCCT
TAGGAGAGACAAGAATTGAAGTTATAATCCAGGCCAATTAGCACTCTCTTTAAAATCAA
CACTCTTCAAAGGACACAACAGAATCCAGAGTCTCTATAACTCTGTATACAGTCTCTT
GTACACAATTTCAAATTCGTGAGATGGGTGAAGACACATGAAATGCAATACATACACA

4352 AAATGAATATCACAAATATAATCTTGCAATTTAAAATTTGATGTAAAAGTATCCAACTAT
ATAATTTTATTATACTAAATCCAAAATCAAACTGACATTCCTTGCTTCTACTAATGGG
AATTAGCTAGTTAACTAACACTCTCAGAGAGAAAATGATGAATCCTAGATAAAATAGT
ATATATCATTATAAACACTTCTATATATAATACATATATGAGATATGTGTGTATAAGAAG
TGAATGAGGATGTCCCCTGTGCCCTCCTTAGGAGAGACAAGAATTGAAGTTATAATCCAG
[T, G]
CCAATTAGCACTCTCTTTAAAATCAAACTCTTCAAAGGGACACAACAGAATCCAGAGT
CTCTATAACTCTGTATACAGTCTCTGTACACAATTTTCAAATTCGTGAGATGGGTGAA
GACACATGAAAATGCAATACATACACAAGATAAAAGGCAGGCAGTAGACATCTCCAAGAT
ATCCAAGATGTAATCAGCAGACAAGAATTTGAAGGCAGCTATTACAAGTATGCTAATGGA
GGCAAAGGAAAAATATACTTATAAAGGAACAGATGTGGAACCTCAGCAGAGAAATAAAA

6493 TCTTGAACCAGGAGTTCGAGACCAGCCTTGGCAACATAGTGTGAGCACCTCCGCCCC
CAACCTTTTCTACAAAAAAGAAAGAAAGAAAAATAGCCAGGCATGGTGGAGCTTGTC
TGTGGTCCCAGCTACTTGGGGACTTAGGTGGGAGGGTCATTTAAGCCTGGGAGGTAGAG
GCTGCAGTGAGCTGAGATCAGGCCACTGCATGCACTCCAGTCTGAGTGACAGAGCGAGAT
CCTCTCTCTATCTCTTCTCCTCAGTCTGTGTGTGTGTGTTGGGAGAGGGGTGTGTGTT
[A, G]
TGGGTGTGTGTGAGTGTGTATGTGTGTTTATTATTCAAATGAAAACAACATAATGAC
AATTATTTTATTTTATTTTATTTTGGAGACAGAGTCTCACTTTGTCAACCAGGCTCCAGTG
CAGTGGTGCGATCTCGGATCATTGCAACCTCCGACCCGAGATTCAAGCAATTCATCTGC
CTCAGCCTCCTGAGCAGCTGGGATTACAGGTGCCCACTACCTTGCCTGGCTAATTTTGT
ATTTTAGAAGAGGCAGGGTTTGCCATGTTCTCCAGGCTGGTTTGAACCTCCTGAGCTC

14047 TGGAAGCCTCTGTCCAAATCTCCAGGCTATCTATGTGTGGGAAGTGGAGTCAGGAAAGA
CCCTAGAGCTTTGGAAGTGATCATTAAAGAGAAAACAAAATCCCTGTAAATTAGAGTACAA
GGGAACATATTTCATTAGCCACCTTTAGAGTCAGATGCTCAGGGCTGAGCTGGTGTGGGG
AGTGTTCAGACCTGTGCATGCCTGGGAAAGCCTCCGATCATGTATGAATGGTGGGCTTC
TGGGTGCATGAGATTGAGTGCCCTTCTTGGCAGAGCACCCTGAGTGAACAATTGATTT
[T, G, A]
GGATCAAGCATATGGAGATCAACTTTATTTTGAATATCTCAAAGACAGAACTGAAAAGA
TTTTTTTGCACCTTGAAATTGAGTAAGGGTGTGAGAACTTCAGTAAAAAGTACAGGA
GGAAACCCAGAGTCTTATTCATCCCAGAAACCACAAAATCCTGATCCAACTGTAAAG
AATTCACTCGTAAAAATTTGATTTTGAATAGGAACAGCTCCGGTCTACAGCTCCAGT
GTGAGCGATGCAGAAGACGGTTGATTTCTGCATTTCCATCTGAGGTACCAGGTTCATCTC

14136 GAAAAACAAATCCCTGTAAATTAGAGTACAAGGGAACATATTCATTAGCCACCTTTAGAG
TCAGATGCTCAGGGCTGAGCTGGTGTGGGGAGTGTTAGACCTGTGCATGCCCTGGGAAA
GCCTCCGATCATGTATGAATGGTGAGGCTTCTGGGTGCATGAGATTGAGTGCCCTTCCTT
GGCAGAGCACCCTGAGTGAACAATTGATTTAGGATCAAGCATATGGAGATCAACTTTAT
TTTGAATATCTCAAAGACAGAACTGAAAAGATTTTTTGCACCTTGAAATTGAGTAAGG
[G, T]
TGTCAGAACTTCAGTAAAAAGTCACAGGAGGAAACCCAGAAGTCTTATTTCATCCCCAG
AAACCACCAAAATCCTGATCCAACTGTAAGAATTACCTCGTAAAAATTTGATTTTTGA
ATAGGAACAGCTCCGGTCTACAGCTCCCAGTGTGAGCGATGCAGAAGACGGTTGATTTCT
GCATTTCCATCTGAGGTACCAGGTTCACTCTCACTATGGAGTGCCAGACAGTGGGCGCACG
TCAGTGGGTGTGCGCACCGTGCGCGAGTGAAGCACGGTGAGGCATTGCCTCACTCACGAA

14238 CTGTGCATGCCCTGGGAAAGCCTCCGATCATGTATGAATGGTGAGGCTTCTGGGTGCATGA
GATTGAGTGCCCTTCCTTGGCAGAGCACCCTGAGTGAACAATTGATTTAGGATCAAGCA
TATGGAGATCAACTTTATTTGAATATCTCAAAGACAGAACTGAAAAGATTTTTTGCAC
CTTTGAAATTGAGTAAGGGTGTGAGAACTTCAGTAAAAAGTCACAGGAGGAAACCCAG
AAGTCTTATTTCATCCCCAGAAACCAAAATCCTGATCCAACTGTAAGAATTACCTC
[G, A]
TAAAAATTTGATTTTTGAATAGGAACAGCTCCGGTCTACAGCTCCCAGTGTGAGCGATGC
AGAAGACGGTTGATTTCTGCATTTCCATCTGAGGTACCAGGTTCACTCTCACTATGGAGTG
CCAGACAGTGGGCGCACGTGAGTGGGTGTGCGCACCGTGCGCGAGTGAAGCACGGTGAGG
CATTGCCTCACTACGAAGTGCAAGAGGTGAGGGAGTTCCCTTTCTATTCAAAGAAAGG
CATGACAGATGGCACCTGGAATCGGATCACTCCACCCGAATACTGCGCTTTTCCGAC

14260 CCGATCATGTATGAATGGTGAGGCTTCTGGGTGCATGAGATTGAGTGCCCTTCCTTGGCA
GAGCACCCTGAGTGAACAATTGATTTAGGATCAAGCATATGGAGATCAACTTTATTTTG
AATATCTCAAAGACAGAACTGAAAAGATTTTTTGCACCTTGAAATTGAGTAAGGGTGT
CAGAACTTCAGTAAAAAGTCACAGGAGGAAACCCAGAAGTCTTATTTCATCCCCAGAAA
CCACCAAAATCCTGATCCAACTGTAAGAATTACCTCGTAAAAATTTGATTTTTGAATA
[T, G]
GAACAGCTCCGGTCTACAGCTCCCAGTGTGAGCGATGCAGAAGACGGTTGATTTCTGCAT
TTCCATCTGAGGTACCAGGTTCACTCTCACTATGGAGTGCCAGACAGTGGGCGCACGTGAG
TGGGTGTGCGCACCGTGCGCGAGTGAAGCACGGTGAGGCATTGCCTCACTACGAAGTGC
AAGAGGTGAGGGAGTTCCCTTTCTATTCAAAGAAAGGCATGACAGATGGCACCTGGAAA
ATCGGATCACTCCACCCGAATACTGCGCTTTTCCGACGGGCTTAAAAATGGTGACCA

25736 AAATCATGTACATAGATATTATAATTTTTCAAATGCTTGAAATGTCAAATTAAATAT
GGTTGATTGTATTAAATAGATACATATATGATAACATAAAAAATATGAAGAAAAAGTAAAT
ACCAATAAAATGGCTCAAATAATTAGAGATTAGACAATTAATTAGACAATAATTAGATC
AAATACAATCAACTCGAATTTATTTAATTAGAGCAGATGCTAACTTAATCAGCGCCTGAT
TCCTGAGGTAGCAAAAAGTCTAGGTGGAGAGAGAACTTACCCCTTTTCTTACCCTTCCT
[C, T]
GGTCATCCTGGGAGCTCCACTTTCTCTGTAGAATTTATTAGCCTCCTTAGTAAACATG
GACTTGGTCCCAACAGGTAACCCAACTGACCACAAGAAAAGCAGCCTAGATCCTGAGCA
TTCAGCTCCTGTCTTACACAACAGACACCACCTCAGTCCCATCAAAGCCTGTGAAGTTT
CCCTACATCCACCATTGAGACATATTCCAGAGCAGCCTCTCAAATTCCTTAACAGGAT
GGGACACGATATGGTGGAGCTCCTGGCTCAGGACAGCTGCCTCACCCCTTCTTACTGAGA

26321 CCCCTTCTACTGAGAAGTCTGTATCTGCTGGTTAGAGCTATCAAAGTGTAGAAGGCTTA
GTGCTGTCCAGCAAGTGTCCCTCAAAGCCTTCTGTGTTTTCTTCTTCTGAGAAAA
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Map data:
 chromosome 16